FIGURE 1

Amino acid sequence for full-length human wild type AKT3 [SEQ. ID No. 1]

(Residues 136-461 are underlined)

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MSDVTIVKEG WVQKRGEYIK NWRPRYFLLK TDGSFIGYKE KPQDVDLPYP LNNFSVAKCQ    60
LMKTERPKPN TFIIRCLQWT TVIERTFHVD TPEEREEWTE AIQAVADRLQ RQEEERMNCS   120
PTSQIDNIGE EEMDASTTHH KRKTMNDFDY LKLLGKGTFG KVILVREKAS GKYYAMKILK   180
KEVIIAKDEV AHTLTESRVL KNTRHPFLTS LKYSFQTKDR LCFVMEYVNG GELFFHLSRE   240
RVFSEDRTRF YGAEIVSALD YLHSGKIVYR DLKLENLMLD KDGHIKITDF GLCKEGITDA   300
ATMKTFCGTP EYLAPEVLED NDYGRAVDWW GLGVVMYEMM CGRLPFYNQD HEKLFELILM   360
EDIKFPRTLS SDAKSLLSGL LIKDPNKRLG GGPDDAKEIM RHSFFSGVNW QDVYDKKLVP   420
PFKPQVTSET DTRYFDEEFT AQTITITPPE KYDEDGMDCM DNERRPHFPQ FSYSASGRE    479
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Human cDNA sequence encoding residues 136-461 of AKT3 [SEQ. ID No. 2]

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TCTACAACCC ATCATAAAAG AAAGACAATG AATGATTTTG ACTATTTGAA ACTACTAGGT    60
AAAGGCACTT TTGGGAAAGT TATTTTGGTT CGAGAGAAGG CAAGTGGAAA ATACTATGCT   120
ATGAAGATTC TGAAGAAAGA AGTCATTATT GCAAAGGATG AAGTGGCACA CACTCTAACT   180
GAAAGCAGAG TATTAAAGAA CACTAGACAT CCCTTTTTAA CATCCTTGAA ATATTCCTTC   240
CAGACAAAAG ACCGTTTGTG TTTTGTGATG GAATATGTTA ATGGGGGCGA GCTGTTTTTC   300
CATTTGTCGA GAGAGCGGGT GTTCTCTGAG GACCGCACAC GTTTCTATGG TGCAGAAATT   360
GTCTCTGCCT TGGACTATCT ACATTCCGGA AAGATTGTGT ACCGTGATCT CAAGTTGGAG   420
AATCTAATGC TGGACAAAGA TGGCCACATA AAAATTACAG ATTTTGGACT TTGCAAAGAA   480
GGGATCACAG ATGCAGCCAC CATGAAGACA TTCTGTGGCA CTCCAGAATA TCTGGCACCA   540
GAGGTGTTAG AAGATAATGA CTATGGCCGA GCAGTAGACT GGTGGGGCCT AGGGGTTGTC   600
ATGTATGAAA TGATGTGTGG GAGGTTACCT TTCTACAACC AGGACCATGA GAAACTTTTT   660
GAATTAATAT TAATGGAAGA CATTAAATTT CCTCGAACAC TCTCTTCAGA TGCAAAATCA   720
TTGCTTTCAG GGCTCTTGAT AAAGGATCCA AATAAACGCC TTGGTGGAGG ACCAGATGAT   780
GCAAAAGAAA TTATGAGACA CAGTTTCTTC TCTGGAGTAA ACTGGCAAGA TGTATATGAT   840
AAAAAGCTTG TACCTCCTTT TAAACCTCAA GTAACATCTG AGACAGATAC TAGATATTTT   900
GATGAAGAAT TTACAGCTCA GACTATTACA ATAACACCAC CTGAAAAATA TGATGAGGAT   960
GGTATGGACT GCATGGAC                                                 978
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Amino acid sequence for residues 136-461 of AKT3 with a cleavable N-terminal intein tag [SEQ. ID No. 3]

(N-terminal intein tag and cleavage site are underlined. The intein tag was subsequently cleaved resulting in CRSL (residues 227-230 of SEQ. ID No. 3) fused to the N-terminal of amino acids 136-461 of SEQ. ID No. 1)

MKIEEGKLTN PGVSAWQVNT AYTAGQLVTY NGKTYKCLQP HTSLAGWEPS NVPALWQLQN 60
NGNNGLELRE SGAISGDSLI SLASTGKRVS IKDLLDEKDF EIWAINEQTM KLESAKVSRV 120
FCTGKKLVYI LKTRLGRTIK ATANHRFLTI DGWKRLDELS LKEHIALPRK LESSSLQLSP 180
EIEKLSQSDI YWDSIVSITE TGVEEVFDLT VPGPHNFVAN DIIVHNCRSL STTHHKRKTM 240
NDFDYLKLLG KGTFGKVILV REKASGKYYA MKILKKEVII AKDEVAHTLT ESRVLKNTRH 300
PFLTSLKYSF QTKDRLCFVM EYVNGGELFF HLSRERVFSE DRTRFYGAEI VSALDYLHSG 360
KIVYRDLKLE NLMLDKDGHI KITDFGLCKE GITDAATMKT FCGTPEYLAP EVLEDNDYGR 420
AVDWWGLGVV MYEMMCGRLP FYNQDHEKLF ELILMEDIKF PRTLSSDAKS LLSGLLIKDP 480
NKRLGGGPDD AKEIMRHSFF SGVNWQDVYD KKLVPPFKPQ VTSETDTRYF DEEFTAQTIT 540
ITPPEKYDED GMDCMD 556

FIGURE 2

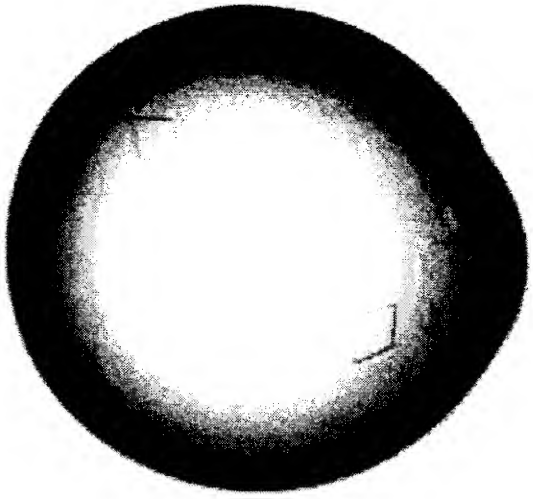


FIGURE 3

LEGEND

Column headings from left to right are (A)'Atom Number', (B)'Atom Type', (C)'Amino Acid', (D)'Chain Identifier', (E)'Amino Acid Number', (F)'X Coordinate', (G)'Y Coordinate', (H)'Z Coordinate', (I)'Occupancy' (OCC) and (J)'B factor'.

A	B	C	D	E	F	G	H	I	J
1	N	ALA	A	143	27.613	21.426	18.330	1.00	56.59
2	CA	ALA	A	143	27.589	21.831	19.763	1.00	55.76
3	CB	ALA	A	143	26.926	23.219	19.916	1.00	55.31
4	C	ALA	A	143	26.846	20.766	20.571	1.00	55.57
5	O	ALA	A	143	26.228	19.865	19.993	1.00	55.81
6	N	THR	A	144	26.900	20.874	21.902	1.00	55.25
7	CA	THR	A	144	26.124	20.003	22.791	1.00	55.15
8	CB	THR	A	144	26.996	18.895	23.405	1.00	55.63
9	OG1	THR	A	144	26.204	18.162	24.335	1.00	56.59
10	CG2	THR	A	144	28.166	19.433	24.268	1.00	56.08
11	C	THR	A	144	25.325	20.689	23.927	1.00	54.84
12	O	THR	A	144	25.587	21.820	24.332	1.00	53.60
13	N	MET	A	145	24.339	19.937	24.405	1.00	54.67
14	CA	MET	A	145	23.434	20.306	25.483	1.00	55.13
15	CB	MET	A	145	22.710	19.049	25.977	1.00	55.68
16	CG	MET	A	145	21.377	19.327	26.609	1.00	59.01
17	SD	MET	A	145	20.093	19.612	25.367	1.00	65.68
18	CE	MET	A	145	19.623	17.862	25.083	1.00	65.56
19	C	MET	A	145	24.104	21.007	26.660	1.00	54.31
20	O	MET	A	145	23.574	21.998	27.190	1.00	53.51
21	N	ASN	A	146	25.268	20.499	27.062	1.00	53.64
22	CA	ASN	A	146	25.969	21.048	28.221	1.00	53.16
23	CB	ASN	A	146	26.828	19.955	28.906	1.00	53.72
24	CG	ASN	A	146	25.989	18.678	29.297	1.00	55.84
25	OD1	ASN	A	146	25.215	18.670	30.287	1.00	57.11
26	ND2	ASN	A	146	26.133	17.617	28.500	1.00	56.58
27	C	ASN	A	146	26.722	22.387	27.936	1.00	51.68
28	O	ASN	A	146	27.149	23.065	28.867	1.00	50.30
29	N	ASP	A	147	26.790	22.811	26.665	1.00	50.87
30	CA	ASP	A	147	27.302	24.163	26.293	1.00	49.95
31	CB	ASP	A	147	27.847	24.205	24.862	1.00	50.01
32	CG	ASP	A	147	28.785	23.047	24.567	1.00	52.58
33	OD1	ASP	A	147	29.754	22.832	25.342	1.00	52.20
34	OD2	ASP	A	147	28.589	22.282	23.603	1.00	53.64
35	C	ASP	A	147	26.286	25.296	26.439	1.00	48.64
36	O	ASP	A	147	26.592	26.457	26.142	1.00	48.17
37	N	PHE	A	148	25.088	24.970	26.893	1.00	47.24
38	CA	PHE	A	148	24.050	25.982	27.086	1.00	46.40
39	CB	PHE	A	148	22.926	25.761	26.097	1.00	45.87
40	CG	PHE	A	148	23.369	25.808	24.679	1.00	47.18
41	CD1	PHE	A	148	23.472	27.037	24.004	1.00	46.78
42	CE1	PHE	A	148	23.890	27.078	22.680	1.00	47.32

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
43	CZ	PHE	A	148	24.216	25.881	22.027	1.00	47.99
44	CE2	PHE	A	148	24.125	24.661	22.701	1.00	45.37
45	CD2	PHE	A	148	23.700	24.635	24.012	1.00	45.84
46	C	PHE	A	148	23.491	25.981	28.497	1.00	45.09
47	O	PHE	A	148	23.275	24.910	29.094	1.00	46.15
48	N	ASP	A	149	23.310	27.199	29.028	1.00	43.15
49	CA	ASP	A	149	22.473	27.458	30.176	1.00	41.09
50	CB	ASP	A	149	22.824	28.801	30.823	1.00	41.57
51	CG	ASP	A	149	24.214	28.835	31.379	1.00	39.52
52	OD1	ASP	A	149	24.916	29.847	31.249	1.00	40.39
53	OD2	ASP	A	149	24.690	27.886	31.953	1.00	42.91
54	C	ASP	A	149	20.998	27.489	29.717	1.00	40.21
55	O	ASP	A	149	20.617	28.152	28.746	1.00	38.69
56	N	TYR	A	150	20.165	26.804	30.465	1.00	37.78
57	CA	TYR	A	150	18.763	26.691	30.142	1.00	35.91
58	CB	BTYR	A	150	18.337	25.259	30.386	0.35	34.84
59	CB	ATYR	A	150	18.232	25.291	30.525	0.65	36.17
60	CG	BTYR	A	150	19.063	24.445	29.355	0.35	31.35
61	CG	ATYR	A	150	16.729	25.210	30.733	0.65	38.71
62	CD1	BTYR	A	150	20.350	23.946	29.590	0.35	28.93
63	CD1	ATYR	A	150	15.852	25.489	29.700	0.65	42.75
64	CE1	BTYR	A	150	21.010	23.250	28.614	0.35	26.50
65	CE1	ATYR	A	150	14.456	25.426	29.895	0.65	42.81
66	CZ	BTYR	A	150	20.395	23.097	27.376	0.35	24.84
67	CZ	ATYR	A	150	13.937	25.079	31.097	0.65	39.84
68	OH	BTYR	A	150	20.972	22.435	26.367	0.35	20.72
69	OH	ATYR	A	150	12.571	25.024	31.226	0.65	41.57
70	CE2	BTYR	A	150	19.156	23.601	27.134	0.35	25.67
71	CE2	ATYR	A	150	14.771	24.791	32.127	0.65	40.86
72	CD2	BTYR	A	150	18.516	24.282	28.097	0.35	26.83
73	CD2	ATYR	A	150	16.177	24.859	31.951	0.65	39.81
74	C	TYR	A	150	18.149	27.732	30.992	1.00	34.31
75	O	TYR	A	150	18.236	27.658	32.179	1.00	33.94
76	N	LEU	A	151	17.620	28.777	30.379	1.00	31.69
77	CA	LEU	A	151	17.156	29.933	31.154	1.00	30.71
78	CB	LEU	A	151	17.565	31.231	30.499	1.00	28.81
79	CG	LEU	A	151	19.071	31.447	30.392	1.00	30.65
80	CD1	LEU	A	151	19.334	32.781	29.736	1.00	34.12
81	CD2	LEU	A	151	19.845	31.407	31.719	1.00	31.52
82	C	LEU	A	151	15.666	29.969	31.431	1.00	29.81
83	O	LEU	A	151	15.263	30.309	32.536	1.00	31.55
84	N	LYS	A	152	14.866	29.711	30.419	1.00	30.25
85	CA	LYS	A	152	13.413	29.763	30.539	1.00	30.97
86	CB	LYS	A	152	12.923	31.221	30.475	1.00	30.72
87	CG	LYS	A	152	11.548	31.390	31.102	1.00	32.43
88	CD	LYS	A	152	11.090	32.801	31.230	1.00	33.30
89	CE	LYS	A	152	9.613	32.826	31.718	1.00	33.00
90	NZ	LYS	A	152	9.416	34.171	32.254	1.00	37.78
91	C	LYS	A	152	12.674	28.938	29.489	1.00	30.89
92	O	LYS	A	152	13.064	28.931	28.341	1.00	28.77
93	N	LEU	A	153	11.562	28.308	29.890	1.00	32.36

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
94	CA	LEU	A	153	10.641	27.649	28.964	1.00	33.66
95	CB	LEU	A	153	9.631	26.795	29.735	1.00	33.94
96	CG	LEU	A	153	8.589	25.998	28.942	1.00	36.00
97	CD1	LEU	A	153	9.257	24.919	28.146	1.00	35.57
98	CD2	LEU	A	153	7.518	25.412	29.876	1.00	35.12
99	C	LEU	A	153	9.875	28.715	28.215	1.00	35.28
100	O	LEU	A	153	9.204	29.522	28.837	1.00	34.35
101	N	LEU	A	154	9.982	28.732	26.885	1.00	37.27
102	CA	LEU	A	154	9.263	29.713	26.055	1.00	39.00
103	CB	LEU	A	154	10.121	30.137	24.870	1.00	38.72
104	CG	LEU	A	154	11.424	30.783	25.302	1.00	38.94
105	CD1	LEU	A	154	12.271	31.167	24.075	1.00	37.98
106	CD2	LEU	A	154	11.110	31.983	26.230	1.00	39.60
107	C	LEU	A	154	7.923	29.192	25.548	1.00	41.36
108	O	LEU	A	154	6.985	29.953	25.380	1.00	40.97
109	N	GLY	A	155	7.850	27.889	25.298	1.00	44.10
110	CA	GLY	A	155	6.630	27.273	24.804	1.00	45.84
111	C	GLY	A	155	6.770	25.780	24.674	1.00	47.67
112	O	GLY	A	155	7.853	25.265	24.395	1.00	48.36
113	N	LYS	A	156	5.680	25.081	24.940	1.00	51.03
114	CA	LYS	A	156	5.620	23.644	24.792	1.00	53.17
115	CB	LYS	A	156	5.309	22.925	26.110	1.00	53.97
116	CG	LYS	A	156	6.086	21.583	26.267	1.00	55.78
117	CD	LYS	A	156	5.735	20.775	27.548	1.00	58.04
118	CE	LYS	A	156	6.784	19.673	27.837	1.00	58.71
119	NZ	LYS	A	156	6.325	18.606	28.820	1.00	59.67
120	C	LYS	A	156	4.562	23.354	23.751	1.00	55.06
121	O	LYS	A	156	3.556	24.079	23.600	1.00	54.87
122	N	GLY	A	157	4.794	22.271	23.031	1.00	56.52
123	CA	GLY	A	157	4.143	22.098	21.754	1.00	57.69
124	C	GLY	A	157	3.215	20.917	21.712	1.00	57.99
125	O	GLY	A	157	2.004	21.086	21.811	1.00	58.76
126	N	THR	A	158	3.810	19.731	21.613	1.00	58.39
127	CA	THR	A	158	3.211	18.542	20.970	1.00	58.32
128	CB	THR	A	158	2.113	18.860	19.864	1.00	58.73
129	OG1	THR	A	158	1.752	20.254	19.848	1.00	58.25
130	CG2	THR	A	158	0.785	18.121	20.151	1.00	59.37
131	C	THR	A	158	4.408	17.907	20.293	1.00	57.81
132	O	THR	A	158	4.752	16.763	20.582	1.00	56.92
133	N	PHE	A	159	5.072	18.697	19.436	1.00	57.35
134	CA	PHE	A	159	6.325	18.253	18.788	1.00	57.63
135	CB	PHE	A	159	6.688	19.084	17.523	1.00	58.38
136	CG	PHE	A	159	5.493	19.638	16.736	1.00	62.37
137	CD1	PHE	A	159	4.965	18.933	15.644	1.00	65.08
138	CE1	PHE	A	159	3.879	19.453	14.908	1.00	66.54
139	CZ	PHE	A	159	3.328	20.709	15.258	1.00	66.96
140	CE2	PHE	A	159	3.855	21.423	16.341	1.00	66.31
141	CD2	PHE	A	159	4.936	20.897	17.063	1.00	65.11
142	C	PHE	A	159	7.528	18.249	19.782	1.00	55.53
143	O	PHE	A	159	8.542	17.545	19.586	1.00	55.50
144	N	GLY	A	160	7.398	19.018	20.851	1.00	52.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
145	CA	GLY	A	160	8.490	19.238	21.781	1.00	51.32
146	C	GLY	A	160	8.356	20.626	22.377	1.00	49.57
147	O	GLY	A	160	7.247	21.107	22.603	1.00	49.01
148	N	LYS	A	161	9.475	21.303	22.603	1.00	48.15
149	CA	LYS	A	161	9.434	22.609	23.304	1.00	46.94
150	CB	LYS	A	161	9.606	22.383	24.816	1.00	46.24
151	CG	LYS	A	161	10.793	21.523	25.217	1.00	45.93
152	CD	LYS	A	161	10.724	21.221	26.734	1.00	47.94
153	CE	LYS	A	161	11.710	20.116	27.181	1.00	51.18
154	NZ	LYS	A	161	11.119	19.106	28.149	1.00	50.37
155	C	LYS	A	161	10.488	23.591	22.842	1.00	45.35
156	O	LYS	A	161	11.448	23.210	22.173	1.00	45.56
157	N	VAL	A	162	10.313	24.858	23.190	1.00	43.55
158	CA	VAL	A	162	11.339	25.849	22.860	1.00	42.26
159	CB	VAL	A	162	10.906	26.863	21.734	1.00	41.69
160	CG1	VAL	A	162	9.547	27.467	21.960	1.00	44.44
161	CG2	VAL	A	162	11.921	27.971	21.568	1.00	40.67
162	C	VAL	A	162	11.795	26.506	24.154	1.00	40.82
163	O	VAL	A	162	10.990	26.842	25.004	1.00	40.66
164	N	ILE	A	163	13.097	26.645	24.312	1.00	38.88
165	CA	ILE	A	163	13.627	27.213	25.528	1.00	38.44
166	CB	ILE	A	163	14.231	26.108	26.417	1.00	38.78
167	CG1	ILE	A	163	15.383	25.454	25.692	1.00	40.67
168	CD1	ILE	A	163	15.773	24.127	26.261	1.00	44.54
169	CG2	ILE	A	163	13.135	25.049	26.766	1.00	39.83
170	C	ILE	A	163	14.661	28.289	25.225	1.00	37.18
171	O	ILE	A	163	15.497	28.153	24.348	1.00	35.16
172	N	LEU	A	164	14.579	29.362	25.985	1.00	35.00
173	CA	LEU	A	164	15.561	30.402	25.949	1.00	33.82
174	CB	LEU	A	164	15.066	31.585	26.762	1.00	32.52
175	CG	LEU	A	164	15.659	33.004	26.602	1.00	33.49
176	CD1	LEU	A	164	15.821	33.714	27.918	1.00	29.71
177	CD2	LEU	A	164	16.881	33.148	25.737	1.00	32.24
178	C	LEU	A	164	16.825	29.814	26.578	1.00	34.07
179	O	LEU	A	164	16.753	29.258	27.668	1.00	33.06
180	N	VAL	A	165	17.966	29.985	25.907	1.00	33.82
181	CA	VAL	A	165	19.257	29.483	26.372	1.00	34.27
182	CB	VAL	A	165	19.694	28.156	25.677	1.00	33.38
183	CG1	VAL	A	165	18.703	27.063	25.942	1.00	34.86
184	CG2	VAL	A	165	19.920	28.315	24.196	1.00	36.18
185	C	VAL	A	165	20.342	30.560	26.230	1.00	34.75
186	O	VAL	A	165	20.197	31.503	25.462	1.00	34.31
187	N	ARG	A	166	21.401	30.444	27.012	1.00	36.09
188	CA	ARG	A	166	22.615	31.242	26.797	1.00	38.19
189	CB	ARG	A	166	23.038	31.978	28.063	1.00	38.27
190	CG	ARG	A	166	24.324	32.858	27.880	1.00	40.41
191	CD	ARG	A	166	24.686	33.741	29.046	1.00	39.91
192	NE	ARG	A	166	24.291	33.060	30.239	1.00	43.64
193	CZ	ARG	A	166	23.413	33.464	31.163	1.00	38.88
194	NH1	ARG	A	166	23.214	32.615	32.145	1.00	36.64
195	NH2	ARG	A	166	22.777	34.652	31.145	1.00	34.34

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
196	C	ARG	A	166	23.696	30.244	26.396	1.00	39.07
197	O	ARG	A	166	23.805	29.207	27.038	1.00	38.53
198	N	GLU	A	167	24.495	30.529	25.356	1.00	40.88
199	CA	GLU	A	167	25.672	29.665	25.079	1.00	42.34
200	CB	GLU	A	167	26.203	29.766	23.641	1.00	42.73
201	CG	GLU	A	167	27.470	28.902	23.449	1.00	44.80
202	CD	GLU	A	167	27.907	28.648	21.992	1.00	48.94
203	OE1	GLU	A	167	28.871	27.844	21.825	1.00	51.18
204	OE2	GLU	A	167	27.329	29.229	21.037	1.00	48.74
205	C	GLU	A	167	26.763	30.078	26.042	1.00	42.80
206	O	GLU	A	167	27.172	31.224	26.025	1.00	42.15
207	N	LYS	A	168	27.215	29.157	26.886	1.00	44.62
208	CA	LYS	A	168	28.091	29.525	28.024	1.00	46.38
209	CB	LYS	A	168	28.487	28.353	28.949	1.00	46.84
210	CG	LYS	A	168	27.769	26.990	28.761	1.00	47.22
211	CD	LYS	A	168	27.001	26.491	29.972	1.00	46.74
212	CE	LYS	A	168	27.798	25.545	30.825	1.00	46.78
213	NZ	LYS	A	168	27.178	24.199	30.993	1.00	43.80
214	C	LYS	A	168	29.330	30.205	27.480	1.00	47.80
215	O	LYS	A	168	29.651	31.309	27.919	1.00	49.04
216	N	ALA	A	169	29.971	29.570	26.483	1.00	48.63
217	CA	ALA	A	169	31.140	30.119	25.767	1.00	48.75
218	CB	ALA	A	169	31.478	29.247	24.520	1.00	48.79
219	C	ALA	A	169	31.003	31.585	25.342	1.00	48.70
220	O	ALA	A	169	31.774	32.430	25.800	1.00	48.77
221	N	SER	A	170	30.034	31.864	24.458	1.00	48.26
222	CA	SER	A	170	29.851	33.194	23.883	1.00	47.54
223	CB	SER	A	170	29.121	33.107	22.531	1.00	48.26
224	OG	SER	A	170	27.773	32.708	22.680	1.00	48.57
225	C	SER	A	170	29.083	34.159	24.741	1.00	46.45
226	O	SER	A	170	29.211	35.362	24.562	1.00	46.29
227	N	GLY	A	171	28.261	33.655	25.655	1.00	45.01
228	CA	GLY	A	171	27.365	34.519	26.401	1.00	43.87
229	C	GLY	A	171	26.175	35.030	25.584	1.00	43.19
230	O	GLY	A	171	25.426	35.876	26.052	1.00	42.57
231	N	LYS	A	172	25.986	34.499	24.377	1.00	42.18
232	CA	LYS	A	172	24.907	34.933	23.509	1.00	41.48
233	CB	LYS	A	172	25.345	34.893	22.031	1.00	42.58
234	CG	LYS	A	172	26.511	35.836	21.754	1.00	45.22
235	CD	LYS	A	172	26.650	36.220	20.276	1.00	50.37
236	CE	LYS	A	172	27.937	37.061	20.039	1.00	52.45
237	NZ	LYS	A	172	28.086	37.540	18.619	1.00	54.65
238	C	LYS	A	172	23.642	34.096	23.730	1.00	39.50
239	O	LYS	A	172	23.704	32.908	24.019	1.00	38.89
240	N	TYR	A	173	22.502	34.749	23.548	1.00	37.64
241	CA	TYR	A	173	21.180	34.167	23.781	1.00	36.10
242	CB	TYR	A	173	20.270	35.280	24.391	1.00	35.74
243	CG	TYR	A	173	20.865	35.820	25.675	1.00	35.74
244	CD1	TYR	A	173	21.511	37.055	25.724	1.00	36.50
245	CE1	TYR	A	173	22.099	37.519	26.940	1.00	39.86
246	CZ	TYR	A	173	22.040	36.728	28.097	1.00	38.71

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
247	OH	TYR	A	173	22.621	37.150	29.311	1.00	41.50
248	CE2	TYR	A	173	21.409	35.490	28.031	1.00	36.11
249	CD2	TYR	A	173	20.844	35.050	26.830	1.00	35.49
250	C	TYR	A	173	20.592	33.551	22.506	1.00	35.32
251	O	TYR	A	173	20.683	34.135	21.446	1.00	35.85
252	N	TYR	A	174	19.977	32.379	22.638	1.00	35.39
253	CA	TYR	A	174	19.303	31.649	21.572	1.00	35.07
254	CB	TYR	A	174	20.227	30.532	21.036	1.00	35.56
255	CG	TYR	A	174	21.491	31.096	20.394	1.00	37.31
256	CD1	TYR	A	174	22.692	31.036	21.044	1.00	39.79
257	CE1	TYR	A	174	23.857	31.574	20.473	1.00	41.73
258	CZ	TYR	A	174	23.809	32.196	19.249	1.00	41.92
259	OH	TYR	A	174	24.962	32.717	18.751	1.00	43.79
260	CE2	TYR	A	174	22.604	32.302	18.560	1.00	42.49
261	CD2	TYR	A	174	21.446	31.761	19.143	1.00	39.57
262	C	TYR	A	174	17.991	31.038	22.033	1.00	35.65
263	O	TYR	A	174	17.768	30.808	23.233	1.00	35.44
264	N	ALA	A	175	17.106	30.783	21.082	1.00	35.44
265	CA	ALA	A	175	16.005	29.857	21.289	1.00	36.69
266	CB	ALA	A	175	14.738	30.317	20.547	1.00	36.11
267	C	ALA	A	175	16.441	28.504	20.764	1.00	38.39
268	O	ALA	A	175	16.913	28.414	19.639	1.00	37.49
269	N	MET	A	176	16.343	27.474	21.600	1.00	39.77
270	CA	MET	A	176	16.609	26.113	21.182	1.00	40.54
271	CB	MET	A	176	17.536	25.397	22.144	1.00	40.53
272	CG	MET	A	176	17.822	23.935	21.781	1.00	38.48
273	SD	MET	A	176	18.579	23.012	23.202	1.00	36.64
274	CE	MET	A	176	20.220	23.657	23.136	1.00	35.82
275	C	MET	A	176	15.300	25.409	21.110	1.00	41.96
276	O	MET	A	176	14.620	25.276	22.108	1.00	42.83
277	N	LYS	A	177	14.913	25.033	19.899	1.00	44.12
278	CA	LYS	A	177	13.760	24.175	19.681	1.00	46.59
279	CB	LYS	A	177	13.347	24.291	18.224	1.00	46.25
280	CG	LYS	A	177	11.959	23.816	17.858	1.00	48.93
281	CD	LYS	A	177	11.851	23.488	16.324	1.00	49.90
282	CE	LYS	A	177	11.441	24.694	15.480	1.00	51.14
283	NZ	LYS	A	177	11.345	24.383	13.995	1.00	52.61
284	C	LYS	A	177	14.260	22.780	20.013	1.00	48.27
285	O	LYS	A	177	15.285	22.391	19.503	1.00	48.35
286	N	ILE	A	178	13.598	22.071	20.927	1.00	51.11
287	CA	ILE	A	178	13.958	20.679	21.269	1.00	53.00
288	CB	ILE	A	178	14.283	20.500	22.794	1.00	53.29
289	CG1	ILE	A	178	15.430	21.413	23.242	1.00	54.01
290	CD1	ILE	A	178	15.781	21.226	24.764	1.00	54.35
291	CG2	ILE	A	178	14.693	19.048	23.138	1.00	53.69
292	C	ILE	A	178	12.782	19.784	20.849	1.00	54.73
293	O	ILE	A	178	11.673	19.879	21.384	1.00	54.11
294	N	LEU	A	179	13.064	18.923	19.874	1.00	57.27
295	CA	LEU	A	179	12.073	18.122	19.166	1.00	59.19
296	CB	LEU	A	179	12.199	18.380	17.654	1.00	59.37
297	CG	LEU	A	179	11.209	19.356	16.997	1.00	59.68

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
298	CD1	LEU	A	179	10.729	20.458	17.939	1.00	59.23
299	CD2	LEU	A	179	11.844	19.951	15.758	1.00	60.68
300	C	LEU	A	179	12.267	16.631	19.484	1.00	60.77
301	O	LEU	A	179	13.355	16.075	19.292	1.00	61.13
302	N	LYS	A	180	11.217	16.002	20.008	1.00	62.56
303	CA	LYS	A	180	11.259	14.585	20.331	1.00	63.85
304	CB	LYS	A	180	10.162	14.203	21.343	1.00	64.15
305	CG	LYS	A	180	10.677	13.678	22.725	1.00	65.44
306	CD	LYS	A	180	11.140	12.164	22.815	1.00	66.17
307	CE	LYS	A	180	10.376	11.126	21.918	1.00	66.21
308	NZ	LYS	A	180	9.175	10.554	22.568	1.00	64.58
309	C	LYS	A	180	11.086	13.840	19.020	1.00	64.76
310	O	LYS	A	180	10.089	14.034	18.311	1.00	64.21
311	N	LYS	A	181	12.094	13.034	18.692	1.00	66.59
312	CA	LYS	A	181	12.081	12.150	17.523	1.00	68.04
313	CB	LYS	A	181	13.166	11.062	17.655	1.00	67.86
314	CG	LYS	A	181	14.485	11.438	16.989	1.00	67.53
315	CD	LYS	A	181	15.719	10.892	17.701	1.00	67.59
316	CE	LYS	A	181	16.888	11.887	17.674	1.00	67.74
317	NZ	LYS	A	181	18.219	11.238	17.534	1.00	67.39
318	C	LYS	A	181	10.707	11.507	17.297	1.00	69.59
319	O	LYS	A	181	10.056	11.799	16.294	1.00	69.63
320	N	GLU	A	182	10.250	10.694	18.257	1.00	71.20
321	CA	GLU	A	182	9.074	9.838	18.047	1.00	72.54
322	CB	GLU	A	182	8.720	9.040	19.318	1.00	72.68
323	CG	GLU	A	182	8.049	7.692	19.040	1.00	73.73
324	CD	GLU	A	182	8.740	6.889	17.931	1.00	75.31
325	OE1	GLU	A	182	8.285	6.952	16.759	1.00	76.11
326	OE2	GLU	A	182	9.748	6.203	18.218	1.00	75.34
327	C	GLU	A	182	7.820	10.551	17.512	1.00	73.31
328	O	GLU	A	182	7.022	9.934	16.803	1.00	73.95
329	N	VAL	A	183	7.658	11.832	17.834	1.00	74.01
330	CA	VAL	A	183	6.435	12.577	17.502	1.00	74.67
331	CB	VAL	A	183	6.255	13.836	18.409	1.00	74.56
332	CG1	VAL	A	183	4.857	14.446	18.205	1.00	74.30
333	CG2	VAL	A	183	6.521	13.506	19.886	1.00	74.42
334	C	VAL	A	183	6.360	13.052	16.044	1.00	75.33
335	O	VAL	A	183	5.277	13.056	15.441	1.00	75.50
336	N	ILE	A	184	7.485	13.508	15.497	1.00	76.13
337	CA	ILE	A	184	7.488	14.007	14.117	1.00	76.89
338	CB	ILE	A	184	8.622	15.088	13.825	1.00	77.15
339	CG1	ILE	A	184	10.027	14.571	14.170	1.00	77.30
340	CD1	ILE	A	184	10.993	14.660	13.011	1.00	76.92
341	CG2	ILE	A	184	8.320	16.437	14.537	1.00	76.77
342	C	ILE	A	184	7.532	12.825	13.144	1.00	77.10
343	O	ILE	A	184	6.975	12.911	12.053	1.00	76.66
344	N	ILE	A	185	8.156	11.717	13.555	1.00	77.67
345	CA	ILE	A	185	8.038	10.457	12.789	1.00	78.20
346	CB	ILE	A	185	9.117	9.325	13.211	1.00	78.33
347	CG1	ILE	A	185	8.543	7.892	13.187	1.00	79.36
348	CD1	ILE	A	185	9.599	6.789	12.845	1.00	79.87

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
349	CG2	ILE	A	185	9.764	9.583	14.553	1.00	78.39
350	C	ILE	A	185	6.572	9.976	12.789	1.00	78.15
351	O	ILE	A	185	6.050	9.566	11.753	1.00	78.23
352	N	ALA	A	186	5.898	10.079	13.929	1.00	78.27
353	CA	ALA	A	186	4.504	9.650	14.031	1.00	78.24
354	CB	ALA	A	186	4.059	9.644	15.487	1.00	78.34
355	C	ALA	A	186	3.546	10.496	13.177	1.00	78.08
356	O	ALA	A	186	2.515	10.001	12.748	1.00	78.13
357	N	LYS	A	187	3.879	11.757	12.917	1.00	77.90
358	CA	LYS	A	187	3.005	12.618	12.115	1.00	77.82
359	CB	LYS	A	187	2.531	13.815	12.953	1.00	77.94
360	CG	LYS	A	187	1.007	13.992	13.053	1.00	77.78
361	CD	LYS	A	187	0.658	15.348	13.705	1.00	77.17
362	CE	LYS	A	187	-0.823	15.467	14.044	1.00	77.05
363	NZ	LYS	A	187	-1.206	14.686	15.250	1.00	75.25
364	C	LYS	A	187	3.690	13.068	10.809	1.00	77.72
365	O	LYS	A	187	3.229	14.001	10.148	1.00	77.73
366	N	ASP	A	188	4.775	12.376	10.442	1.00	77.59
367	CA	ASP	A	188	5.486	12.554	9.153	1.00	77.44
368	CB	ASP	A	188	4.659	11.977	7.998	1.00	77.52
369	CG	ASP	A	188	4.536	10.474	8.075	1.00	78.00
370	OD1	ASP	A	188	4.797	9.887	9.150	1.00	77.81
371	OD2	ASP	A	188	4.181	9.792	7.101	1.00	79.29
372	C	ASP	A	188	5.949	13.969	8.795	1.00	76.77
373	O	ASP	A	188	5.928	14.357	7.617	1.00	76.75
374	N	GLU	A	189	6.362	14.720	9.819	1.00	76.07
375	CA	GLU	A	189	7.123	15.963	9.652	1.00	75.11
376	CB	GLU	A	189	6.733	16.983	10.735	1.00	75.09
377	CG	GLU	A	189	5.287	17.457	10.646	1.00	74.73
378	CD	GLU	A	189	5.067	18.520	9.580	1.00	74.41
379	OE1	GLU	A	189	4.307	19.464	9.844	1.00	74.11
380	OE2	GLU	A	189	5.638	18.422	8.476	1.00	74.51
381	C	GLU	A	189	8.639	15.696	9.690	1.00	74.36
382	O	GLU	A	189	9.427	16.614	9.917	1.00	74.31
383	N	VAL	A	190	9.044	14.441	9.464	1.00	73.18
384	CA	VAL	A	190	10.461	14.082	9.357	1.00	72.17
385	CB	VAL	A	190	10.662	12.533	9.101	1.00	72.54
386	CG1	VAL	A	190	12.093	12.198	8.679	1.00	72.42
387	CG2	VAL	A	190	10.304	11.723	10.350	1.00	72.85
388	C	VAL	A	190	11.101	14.917	8.246	1.00	70.72
389	O	VAL	A	190	12.083	15.625	8.484	1.00	70.50
390	N	ALA	A	191	10.513	14.860	7.053	1.00	68.83
391	CA	ALA	A	191	11.080	15.532	5.886	1.00	67.41
392	CB	ALA	A	191	10.458	14.997	4.585	1.00	67.17
393	C	ALA	A	191	10.959	17.057	5.958	1.00	65.81
394	O	ALA	A	191	11.873	17.747	5.550	1.00	65.26
395	N	HIS	A	192	9.845	17.578	6.467	1.00	64.55
396	CA	HIS	A	192	9.654	19.028	6.554	1.00	63.34
397	CB	HIS	A	192	8.249	19.376	7.068	1.00	63.93
398	CG	HIS	A	192	8.105	20.795	7.552	1.00	65.94
399	ND1	HIS	A	192	7.236	21.153	8.562	1.00	68.28

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
400	CE1	HIS	A	192	7.330	22.455	8.785	1.00	69.38
401	NE2	HIS	A	192	8.227	22.959	7.953	1.00	68.87
402	CD2	HIS	A	192	8.721	21.944	7.164	1.00	68.14
403	C	HIS	A	192	10.716	19.643	7.460	1.00	61.94
404	O	HIS	A	192	11.408	20.592	7.096	1.00	60.76
405	N	THR	A	193	10.849	19.067	8.637	1.00	60.53
406	CA	THR	A	193	11.742	19.575	9.653	1.00	59.78
407	CB	THR	A	193	11.621	18.702	10.884	1.00	59.81
408	OG1	THR	A	193	10.267	18.745	11.366	1.00	60.92
409	CG2	THR	A	193	12.496	19.239	12.026	1.00	59.77
410	C	THR	A	193	13.202	19.641	9.226	1.00	59.30
411	O	THR	A	193	13.886	20.618	9.522	1.00	58.63
412	N	LEU	A	194	13.696	18.602	8.563	1.00	58.75
413	CA	LEU	A	194	15.093	18.596	8.120	1.00	59.00
414	CB	LEU	A	194	15.600	17.172	7.928	1.00	59.15
415	CG	LEU	A	194	15.518	16.349	9.217	1.00	59.79
416	CD1	LEU	A	194	15.358	14.875	8.861	1.00	60.51
417	CD2	LEU	A	194	16.717	16.591	10.188	1.00	59.77
418	C	LEU	A	194	15.291	19.415	6.847	1.00	58.88
419	O	LEU	A	194	16.382	19.924	6.598	1.00	57.88
420	N	THR	A	195	14.222	19.541	6.060	1.00	59.22
421	CA	THR	A	195	14.217	20.370	4.856	1.00	59.93
422	CB	THR	A	195	12.855	20.256	4.104	1.00	60.17
423	OG1	THR	A	195	12.498	18.873	3.931	1.00	61.53
424	CG2	THR	A	195	12.970	20.779	2.676	1.00	59.84
425	C	THR	A	195	14.457	21.808	5.246	1.00	60.14
426	O	THR	A	195	15.406	22.465	4.776	1.00	60.39
427	N	GLU	A	196	13.592	22.285	6.130	1.00	60.33
428	CA	GLU	A	196	13.692	23.620	6.652	1.00	60.65
429	CB	GLU	A	196	12.570	23.867	7.628	1.00	60.98
430	CG	GLU	A	196	12.711	25.183	8.353	1.00	63.20
431	CD	GLU	A	196	11.680	25.281	9.417	1.00	65.82
432	OE1	GLU	A	196	11.986	24.893	10.573	1.00	67.42
433	OE2	GLU	A	196	10.561	25.692	9.053	1.00	69.13
434	C	GLU	A	196	14.996	23.798	7.383	1.00	60.14
435	O	GLU	A	196	15.625	24.829	7.269	1.00	60.55
436	N	SER	A	197	15.392	22.804	8.163	1.00	59.68
437	CA	SER	A	197	16.584	22.947	8.986	1.00	59.12
438	CB	SER	A	197	17.018	21.635	9.628	1.00	58.78
439	OG	SER	A	197	18.420	21.619	9.771	1.00	56.82
440	C	SER	A	197	17.696	23.470	8.107	1.00	59.11
441	O	SER	A	197	18.276	24.515	8.417	1.00	58.22
442	N	ARG	A	198	17.957	22.737	7.016	1.00	59.14
443	CA	ARG	A	198	19.016	23.062	6.048	1.00	59.54
444	CB	ARG	A	198	19.044	22.027	4.925	1.00	60.25
445	CG	ARG	A	198	20.103	20.904	5.055	1.00	62.43
446	CD	ARG	A	198	20.421	20.242	3.700	1.00	65.15
447	NE	ARG	A	198	19.256	20.373	2.823	1.00	66.57
448	CZ	ARG	A	198	18.167	19.592	2.868	1.00	68.16
449	NH1	ARG	A	198	17.155	19.836	2.035	1.00	67.13
450	NH2	ARG	A	198	18.091	18.556	3.719	1.00	68.57

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
451	C	ARG	A	198	18.829	24.444	5.399	1.00	59.23
452	O	ARG	A	198	19.808	25.150	5.137	1.00	59.17
453	N	VAL	A	199	17.578	24.812	5.126	1.00	58.30
454	CA	VAL	A	199	17.271	26.139	4.609	1.00	58.30
455	CB	VAL	A	199	15.766	26.290	4.279	1.00	58.46
456	CG1	VAL	A	199	15.371	27.780	4.073	1.00	58.34
457	CG2	VAL	A	199	15.417	25.424	3.062	1.00	58.98
458	C	VAL	A	199	17.754	27.212	5.591	1.00	57.78
459	O	VAL	A	199	18.767	27.865	5.318	1.00	57.82
460	N	LEU	A	200	17.079	27.366	6.737	1.00	57.19
461	CA	LEU	A	200	17.485	28.371	7.754	1.00	56.65
462	CB	LEU	A	200	16.576	28.449	9.016	1.00	56.62
463	CG	LEU	A	200	15.285	27.659	9.302	1.00	58.97
464	CD1	LEU	A	200	15.549	26.566	10.354	1.00	61.19
465	CD2	LEU	A	200	14.104	28.529	9.761	1.00	59.55
466	C	LEU	A	200	18.948	28.275	8.185	1.00	55.30
467	O	LEU	A	200	19.492	29.267	8.657	1.00	55.24
468	N	LYS	A	201	19.571	27.107	7.997	1.00	54.50
469	CA	LYS	A	201	20.992	26.890	8.309	1.00	53.87
470	CB	LYS	A	201	21.251	25.397	8.523	1.00	54.43
471	CG	LYS	A	201	22.414	25.061	9.489	1.00	56.12
472	CD	LYS	A	201	22.322	23.567	9.965	1.00	57.15
473	CE	LYS	A	201	23.546	23.105	10.760	1.00	58.68
474	NZ	LYS	A	201	24.241	24.219	11.499	1.00	58.76
475	C	LYS	A	201	21.956	27.384	7.223	1.00	52.69
476	O	LYS	A	201	23.093	27.755	7.510	1.00	53.28
477	N	ASN	A	202	21.516	27.340	5.970	1.00	51.30
478	CA	ASN	A	202	22.311	27.801	4.840	1.00	49.63
479	CB	ASN	A	202	22.190	26.803	3.696	1.00	50.03
480	CG	ASN	A	202	23.438	25.950	3.533	1.00	52.44
481	OD1	ASN	A	202	23.968	25.805	2.418	1.00	55.49
482	ND2	ASN	A	202	23.935	25.412	4.646	1.00	49.75
483	C	ASN	A	202	21.882	29.173	4.345	1.00	47.67
484	O	ASN	A	202	22.321	29.606	3.297	1.00	48.70
485	N	THR	A	203	21.013	29.862	5.066	1.00	44.75
486	CA	THR	A	203	20.580	31.186	4.600	1.00	42.80
487	CB	THR	A	203	19.109	31.188	4.233	1.00	41.99
488	OG1	THR	A	203	18.340	30.680	5.321	1.00	43.37
489	CG2	THR	A	203	18.809	30.263	3.095	1.00	43.53
490	C	THR	A	203	20.838	32.265	5.640	1.00	40.68
491	O	THR	A	203	20.788	32.003	6.871	1.00	40.98
492	N	ARG	A	204	21.096	33.472	5.146	1.00	38.05
493	CA	ARG	A	204	21.226	34.649	6.007	1.00	37.25
494	CB	ARG	A	204	22.676	34.841	6.415	1.00	38.34
495	CG	ARG	A	204	23.004	33.925	7.691	1.00	46.44
496	CD	ARG	A	204	23.708	34.650	8.875	1.00	54.17
497	NE	ARG	A	204	24.838	35.449	8.356	1.00	60.02
498	CZ	ARG	A	204	25.971	34.933	7.850	1.00	64.03
499	NH1	ARG	A	204	26.919	35.745	7.395	1.00	66.29
500	NH2	ARG	A	204	26.170	33.614	7.793	1.00	65.13
501	C	ARG	A	204	20.585	35.910	5.442	1.00	33.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
502	O	ARG	A	204	20.981	36.405	4.411	1.00	32.59
503	N	HIS	A	205	19.555	36.365	6.146	1.00	30.69
504	CA	HIS	A	205	18.638	37.451	5.751	1.00	27.95
505	CB	HIS	A	205	17.305	36.980	5.122	1.00	26.74
506	CG	HIS	A	205	16.701	38.038	4.278	1.00	26.02
507	ND1	HIS	A	205	16.338	39.251	4.739	1.00	20.10
508	CE1	HIS	A	205	16.127	40.091	3.756	1.00	27.65
509	NE2	HIS	A	205	16.182	39.398	2.666	1.00	23.45
510	CD2	HIS	A	205	16.381	38.078	2.992	1.00	28.82
511	C	HIS	A	205	18.173	38.115	7.022	1.00	27.20
512	O	HIS	A	205	17.758	37.438	7.966	1.00	24.49
513	N	PRO	A	206	18.121	39.428	7.012	1.00	26.74
514	CA	PRO	A	206	17.755	40.167	8.206	1.00	26.45
515	CB	PRO	A	206	17.735	41.604	7.722	1.00	27.72
516	CG	PRO	A	206	18.514	41.626	6.583	1.00	28.61
517	CD	PRO	A	206	18.434	40.324	5.898	1.00	27.01
518	C	PRO	A	206	16.363	39.779	8.663	1.00	25.70
519	O	PRO	A	206	16.108	39.944	9.846	1.00	24.35
520	N	PHE	A	207	15.508	39.295	7.752	1.00	23.25
521	CA	PHE	A	207	14.172	38.976	8.128	1.00	25.09
522	CB	PHE	A	207	13.153	39.763	7.308	1.00	23.87
523	CG	PHE	A	207	13.465	41.220	7.265	1.00	23.27
524	CD1	PHE	A	207	13.647	41.907	8.403	1.00	20.44
525	CE1	PHE	A	207	13.953	43.240	8.344	1.00	25.33
526	CZ	PHE	A	207	14.161	43.833	7.154	1.00	22.29
527	CE2	PHE	A	207	14.042	43.150	6.040	1.00	21.60
528	CD2	PHE	A	207	13.660	41.862	6.082	1.00	21.44
529	C	PHE	A	207	13.879	37.523	8.237	1.00	26.37
530	O	PHE	A	207	12.741	37.136	8.503	1.00	28.02
531	N	LEU	A	208	14.918	36.723	8.141	1.00	28.91
532	CA	LEU	A	208	14.801	35.310	8.335	1.00	30.45
533	CB	LEU	A	208	15.417	34.533	7.180	1.00	31.45
534	CG	LEU	A	208	14.513	34.237	5.993	1.00	34.82
535	CD1	LEU	A	208	15.423	33.735	4.856	1.00	35.96
536	CD2	LEU	A	208	13.500	33.164	6.418	1.00	38.73
537	C	LEU	A	208	15.514	34.970	9.634	1.00	30.78
538	O	LEU	A	208	16.648	35.390	9.877	1.00	29.94
539	N	THR	A	209	14.810	34.239	10.466	1.00	31.30
540	CA	THR	A	209	15.386	33.645	11.673	1.00	34.81
541	CB	THR	A	209	14.273	32.949	12.421	1.00	34.40
542	OG1	THR	A	209	13.406	33.969	12.920	1.00	39.53
543	CG2	THR	A	209	14.797	32.302	13.659	1.00	38.71
544	C	THR	A	209	16.509	32.688	11.384	1.00	35.22
545	O	THR	A	209	16.313	31.703	10.727	1.00	37.10
546	N	SER	A	210	17.701	33.011	11.814	1.00	37.87
547	CA	SER	A	210	18.861	32.159	11.564	1.00	40.12
548	CB	SER	A	210	20.132	32.974	11.764	1.00	40.91
549	OG	SER	A	210	21.238	32.083	11.966	1.00	44.58
550	C	SER	A	210	18.941	30.955	12.507	1.00	41.03
551	O	SER	A	210	18.949	31.122	13.725	1.00	41.43
552	N	LEU	A	211	19.032	29.767	11.940	1.00	42.25

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
553	CA	LEU	A	211	19.451	28.559	12.649	1.00	43.74
554	CB	LEU	A	211	19.009	27.341	11.866	1.00	44.39
555	CG	LEU	A	211	19.104	25.999	12.584	1.00	47.26
556	CD1	LEU	A	211	18.017	25.070	12.037	1.00	48.59
557	CD2	LEU	A	211	20.436	25.407	12.335	1.00	49.77
558	C	LEU	A	211	20.961	28.509	12.775	1.00	44.63
559	O	LEU	A	211	21.654	28.390	11.768	1.00	44.28
560	N	LYS	A	212	21.460	28.617	14.003	1.00	45.30
561	CA	LYS	A	212	22.894	28.644	14.293	1.00	46.62
562	CB	LYS	A	212	23.152	29.515	15.529	1.00	47.37
563	CG	LYS	A	212	24.607	29.935	15.815	1.00	50.28
564	CD	LYS	A	212	25.444	30.302	14.578	1.00	53.94
565	CE	LYS	A	212	25.106	31.692	14.012	1.00	57.34
566	NZ	LYS	A	212	23.636	32.041	14.065	1.00	58.81
567	C	LYS	A	212	23.531	27.258	14.480	1.00	46.79
568	O	LYS	A	212	24.632	27.011	13.956	1.00	46.55
569	N	TYR	A	213	22.887	26.365	15.238	1.00	47.23
570	CA	TYR	A	213	23.402	24.977	15.361	1.00	48.03
571	CB	TYR	A	213	24.162	24.720	16.654	1.00	47.89
572	CG	TYR	A	213	25.125	25.756	17.079	1.00	48.90
573	CD1	TYR	A	213	26.329	25.916	16.414	1.00	52.56
574	CE1	TYR	A	213	27.243	26.868	16.818	1.00	54.08
575	CZ	TYR	A	213	26.949	27.670	17.904	1.00	53.47
576	OH	TYR	A	213	27.860	28.616	18.314	1.00	57.01
577	CE2	TYR	A	213	25.760	27.520	18.578	1.00	51.26
578	CD2	TYR	A	213	24.867	26.554	18.172	1.00	49.26
579	C	TYR	A	213	22.286	23.980	15.372	1.00	48.30
580	O	TYR	A	213	21.134	24.294	15.722	1.00	47.58
581	N	SER	A	214	22.640	22.764	15.009	1.00	48.56
582	CA	SER	A	214	21.778	21.628	15.237	1.00	50.22
583	CB	SER	A	214	21.076	21.197	13.967	1.00	50.27
584	OG	SER	A	214	22.037	20.811	13.008	1.00	50.34
585	C	SER	A	214	22.612	20.474	15.800	1.00	51.57
586	O	SER	A	214	23.832	20.371	15.579	1.00	51.04
587	N	PHE	A	215	21.939	19.640	16.570	1.00	53.13
588	CA	PHE	A	215	22.547	18.467	17.179	1.00	54.67
589	CB	PHE	A	215	23.616	18.804	18.257	1.00	54.82
590	CG	PHE	A	215	23.114	19.649	19.408	1.00	55.41
591	CD1	PHE	A	215	22.513	19.057	20.517	1.00	55.27
592	CE1	PHE	A	215	22.075	19.837	21.580	1.00	55.27
593	CZ	PHE	A	215	22.249	21.212	21.546	1.00	54.04
594	CE2	PHE	A	215	22.871	21.797	20.464	1.00	54.08
595	CD2	PHE	A	215	23.305	21.029	19.413	1.00	53.23
596	C	PHE	A	215	21.434	17.627	17.740	1.00	55.60
597	O	PHE	A	215	20.272	18.016	17.730	1.00	55.25
598	N	GLN	A	216	21.788	16.439	18.182	1.00	57.28
599	CA	GLN	A	216	20.787	15.507	18.663	1.00	58.66
600	CB	GLN	A	216	20.376	14.561	17.534	1.00	58.90
601	CG	GLN	A	216	21.510	14.235	16.562	1.00	58.23
602	CD	GLN	A	216	21.161	13.117	15.614	1.00	58.73
603	OE1	GLN	A	216	20.857	11.996	16.048	1.00	60.23

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
604	NE2	GLN	A	216	21.201	13.406	14.319	1.00	57.86
605	C	GLN	A	216	21.345	14.739	19.855	1.00	60.00
606	O	GLN	A	216	22.569	14.625	20.005	1.00	59.68
607	N	THR	A	217	20.435	14.308	20.732	1.00	61.80
608	CA	THR	A	217	20.679	13.233	21.687	1.00	63.47
609	CB	THR	A	217	20.107	13.588	23.101	1.00	63.97
610	OG1	THR	A	217	18.687	13.831	23.048	1.00	64.68
611	CG2	THR	A	217	20.720	14.920	23.635	1.00	64.41
612	C	THR	A	217	20.025	11.980	21.077	1.00	64.19
613	O	THR	A	217	19.496	12.053	19.965	1.00	64.41
614	N	LYS	A	218	20.068	10.840	21.762	1.00	64.94
615	CA	LYS	A	218	19.474	9.626	21.183	1.00	65.75
616	CB	LYS	A	218	19.843	8.355	21.974	1.00	66.06
617	CG	LYS	A	218	21.167	7.680	21.512	1.00	67.24
618	CD	LYS	A	218	21.022	6.833	20.217	1.00	68.75
619	CE	LYS	A	218	22.388	6.565	19.546	1.00	69.61
620	NZ	LYS	A	218	22.331	5.701	18.291	1.00	70.98
621	C	LYS	A	218	17.947	9.757	21.012	1.00	65.76
622	O	LYS	A	218	17.380	9.161	20.092	1.00	65.95
623	N	ASP	A	219	17.297	10.559	21.861	1.00	65.43
624	CA	ASP	A	219	15.833	10.683	21.837	1.00	65.23
625	CB	ASP	A	219	15.234	10.337	23.223	1.00	65.71
626	CG	ASP	A	219	15.099	8.810	23.457	1.00	67.31
627	OD1	ASP	A	219	15.293	8.027	22.485	1.00	68.83
628	OD2	ASP	A	219	14.808	8.304	24.580	1.00	67.69
629	C	ASP	A	219	15.280	12.032	21.329	1.00	64.15
630	O	ASP	A	219	14.076	12.116	21.100	1.00	64.62
631	N	ARG	A	220	16.133	13.048	21.118	1.00	62.48
632	CA	ARG	A	220	15.684	14.400	20.705	1.00	61.27
633	CB	ARG	A	220	15.540	15.301	21.943	1.00	61.68
634	CG	ARG	A	220	14.266	15.031	22.813	1.00	64.11
635	CD	ARG	A	220	14.529	14.630	24.284	1.00	67.95
636	NE	ARG	A	220	15.367	15.607	24.999	1.00	70.51
637	CZ	ARG	A	220	15.845	15.458	26.237	1.00	71.81
638	NH1	ARG	A	220	15.587	14.357	26.948	1.00	71.25
639	NH2	ARG	A	220	16.595	16.430	26.762	1.00	72.94
640	C	ARG	A	220	16.614	15.072	19.663	1.00	59.27
641	O	ARG	A	220	17.810	14.762	19.602	1.00	58.52
642	N	LEU	A	221	16.043	15.944	18.819	1.00	56.93
643	CA	LEU	A	221	16.817	16.881	17.968	1.00	55.42
644	CB	LEU	A	221	16.563	16.679	16.460	1.00	55.83
645	CG	LEU	A	221	15.244	16.169	15.875	1.00	57.46
646	CD1	LEU	A	221	15.098	16.649	14.438	1.00	59.01
647	CD2	LEU	A	221	15.177	14.661	15.909	1.00	57.56
648	C	LEU	A	221	16.638	18.386	18.314	1.00	53.50
649	O	LEU	A	221	15.529	18.902	18.501	1.00	52.01
650	N	CYS	A	222	17.776	19.074	18.330	1.00	51.12
651	CA	CYS	A	222	17.895	20.377	18.924	1.00	49.13
652	CB	CYS	A	222	18.952	20.372	20.030	1.00	49.43
653	SG	CYS	A	222	18.608	19.254	21.413	1.00	50.32
654	C	CYS	A	222	18.318	21.333	17.852	1.00	47.20

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
655	O	CYS	A	222	19.293	21.075	17.149	1.00	44.42
656	N	PHE	A	223	17.576	22.442	17.767	1.00	45.39
657	CA	PHE	A	223	17.815	23.515	16.805	1.00	44.50
658	CB	PHE	A	223	16.636	23.619	15.858	1.00	45.03
659	CG	PHE	A	223	16.432	22.383	15.064	1.00	47.88
660	CD1	PHE	A	223	17.359	22.020	14.097	1.00	50.66
661	CE1	PHE	A	223	17.205	20.847	13.359	1.00	53.05
662	CZ	PHE	A	223	16.138	20.013	13.616	1.00	53.63
663	CE2	PHE	A	223	15.222	20.351	14.604	1.00	53.95
664	CD2	PHE	A	223	15.375	21.538	15.326	1.00	51.51
665	C	PHE	A	223	18.006	24.804	17.558	1.00	43.36
666	O	PHE	A	223	17.093	25.272	18.262	1.00	42.55
667	N	VAL	A	224	19.214	25.340	17.466	1.00	41.80
668	CA	VAL	A	224	19.565	26.553	18.170	1.00	41.33
669	CB	VAL	A	224	20.995	26.502	18.721	1.00	40.84
670	CG1	VAL	A	224	21.333	27.760	19.455	1.00	41.30
671	CG2	VAL	A	224	21.157	25.298	19.676	1.00	43.05
672	C	VAL	A	224	19.382	27.685	17.168	1.00	41.39
673	O	VAL	A	224	20.214	27.867	16.244	1.00	39.55
674	N	MET	A	225	18.262	28.390	17.337	1.00	40.30
675	CA	MET	A	225	17.870	29.560	16.526	1.00	41.41
676	CB	MET	A	225	16.400	29.442	16.148	1.00	42.44
677	CG	MET	A	225	16.072	28.126	15.433	1.00	46.65
678	SD	MET	A	225	14.314	27.888	15.525	1.00	55.08
679	CE	MET	A	225	14.105	26.503	14.408	1.00	54.47
680	C	MET	A	225	18.029	30.901	17.267	1.00	39.37
681	O	MET	A	225	18.072	30.947	18.485	1.00	37.06
682	N	GLU	A	226	18.175	31.959	16.478	1.00	37.79
683	CA	GLU	A	226	18.120	33.350	16.901	1.00	37.01
684	CB	GLU	A	226	17.781	34.210	15.684	1.00	38.55
685	CG	GLU	A	226	18.739	35.329	15.379	1.00	40.61
686	CD	GLU	A	226	18.174	36.171	14.268	1.00	40.82
687	OE1	GLU	A	226	17.800	35.618	13.196	1.00	36.47
688	OE2	GLU	A	226	18.086	37.378	14.504	1.00	45.67
689	C	GLU	A	226	16.951	33.498	17.865	1.00	35.04
690	O	GLU	A	226	15.886	32.983	17.591	1.00	33.62
691	N	TYR	A	227	17.162	34.170	18.989	1.00	33.67
692	CA	TYR	A	227	16.082	34.440	19.946	1.00	32.81
693	CB	TYR	A	227	16.623	34.653	21.366	1.00	32.04
694	CG	TYR	A	227	15.597	35.036	22.370	1.00	30.69
695	CD1	TYR	A	227	15.756	36.150	23.185	1.00	30.75
696	CE1	TYR	A	227	14.801	36.487	24.134	1.00	32.02
697	CZ	TYR	A	227	13.690	35.691	24.263	1.00	33.74
698	OH	TYR	A	227	12.691	35.978	25.169	1.00	32.70
699	CE2	TYR	A	227	13.539	34.595	23.471	1.00	34.29
700	CD2	TYR	A	227	14.497	34.248	22.567	1.00	32.81
701	C	TYR	A	227	15.372	35.686	19.464	1.00	32.46
702	O	TYR	A	227	15.970	36.723	19.321	1.00	31.78
703	N	VAL	A	228	14.087	35.590	19.186	1.00	33.17
704	CA	VAL	A	228	13.374	36.811	18.809	1.00	32.87
705	CB	VAL	A	228	12.986	36.919	17.266	1.00	33.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
706	CG1	VAL	A	228	13.669	35.838	16.426	1.00	35.88
707	CG2	VAL	A	228	11.506	36.940	16.989	1.00	35.76
708	C	VAL	A	228	12.275	37.007	19.797	1.00	31.21
709	O	VAL	A	228	11.526	36.109	20.087	1.00	30.95
710	N	ASN	A	229	12.197	38.260	20.206	1.00	31.18
711	CA	ASN	A	229	11.619	38.778	21.437	1.00	31.49
712	CB	ASN	A	229	12.659	39.841	22.000	1.00	31.60
713	CG	ASN	A	229	12.758	39.673	23.320	1.00	34.15
714	OD1	ASN	A	229	13.287	40.440	24.138	1.00	34.25
715	ND2	ASN	A	229	12.166	38.561	23.650	1.00	39.75
716	C	ASN	A	229	10.319	39.588	21.402	1.00	29.79
717	O	ASN	A	229	9.742	39.931	22.463	1.00	28.73
718	N	GLY	A	230	9.947	39.999	20.215	1.00	27.85
719	CA	GLY	A	230	8.957	41.048	20.012	1.00	27.97
720	C	GLY	A	230	7.540	40.516	19.883	1.00	28.22
721	O	GLY	A	230	6.627	41.273	19.642	1.00	28.49
722	N	GLY	A	231	7.358	39.211	20.077	1.00	28.46
723	CA	GLY	A	231	6.059	38.579	19.989	1.00	28.31
724	C	GLY	A	231	5.626	38.138	18.588	1.00	29.49
725	O	GLY	A	231	6.081	38.657	17.554	1.00	28.94
726	N	GLU	A	232	4.697	37.190	18.585	1.00	30.77
727	CA	GLU	A	232	4.030	36.677	17.409	1.00	32.46
728	CB	GLU	A	232	3.170	35.478	17.843	1.00	33.46
729	CG	GLU	A	232	3.979	34.259	18.210	1.00	39.48
730	CD	GLU	A	232	3.364	32.968	17.706	1.00	47.07
731	OE1	GLU	A	232	2.967	32.923	16.521	1.00	52.17
732	OE2	GLU	A	232	3.280	31.997	18.500	1.00	51.49
733	C	GLU	A	232	3.102	37.718	16.765	1.00	32.02
734	O	GLU	A	232	2.328	38.363	17.479	1.00	31.77
735	N	LEU	A	233	3.150	37.860	15.442	1.00	30.95
736	CA	LEU	A	233	2.201	38.746	14.757	1.00	31.67
737	CB	LEU	A	233	2.511	38.963	13.277	1.00	30.88
738	CG	LEU	A	233	3.348	40.221	12.994	1.00	31.40
739	CD1	LEU	A	233	3.339	40.482	11.507	1.00	32.54
740	CD2	LEU	A	233	2.915	41.510	13.752	1.00	28.72
741	C	LEU	A	233	0.787	38.296	14.891	1.00	32.09
742	O	LEU	A	233	-0.094	39.138	14.949	1.00	32.59
743	N	PHE	A	234	0.565	36.994	14.962	1.00	32.97
744	CA	PHE	A	234	-0.754	36.442	15.266	1.00	34.67
745	CB	PHE	A	234	-0.687	34.905	15.316	1.00	35.89
746	CG	PHE	A	234	-2.037	34.239	15.506	1.00	38.80
747	CD1	PHE	A	234	-2.609	34.157	16.763	1.00	43.32
748	CE1	PHE	A	234	-3.857	33.555	16.933	1.00	46.08
749	CZ	PHE	A	234	-4.534	33.038	15.838	1.00	44.87
750	CE2	PHE	A	234	-3.969	33.117	14.585	1.00	43.73
751	CD2	PHE	A	234	-2.727	33.712	14.430	1.00	42.80
752	C	PHE	A	234	-1.298	37.060	16.563	1.00	35.22
753	O	PHE	A	234	-2.391	37.571	16.608	1.00	35.26
754	N	PHE	A	235	-0.499	37.091	17.615	1.00	37.17
755	CA	PHE	A	235	-0.988	37.713	18.826	1.00	37.36
756	CB	PHE	A	235	-0.230	37.214	20.064	1.00	38.98

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
757	CG	PHE	A	235	-0.517	35.745	20.365	1.00	44.21
758	CD1	PHE	A	235	-1.849	35.288	20.462	1.00	50.14
759	CE1	PHE	A	235	-2.140	33.916	20.711	1.00	51.53
760	CZ	PHE	A	235	-1.091	33.003	20.834	1.00	52.21
761	CE2	PHE	A	235	0.249	33.454	20.696	1.00	52.42
762	CD2	PHE	A	235	0.520	34.812	20.476	1.00	48.68
763	C	PHE	A	235	-1.130	39.208	18.714	1.00	35.98
764	O	PHE	A	235	-2.167	39.745	19.110	1.00	35.57
765	N	HIS	A	236	-0.177	39.901	18.098	1.00	33.54
766	CA	HIS	A	236	-0.399	41.307	17.850	1.00	32.94
767	CB	HIS	A	236	0.821	41.949	17.205	1.00	31.69
768	CG	HIS	A	236	2.005	41.984	18.098	1.00	32.03
769	ND1	HIS	A	236	3.122	41.209	17.886	1.00	36.25
770	CE1	HIS	A	236	4.020	41.469	18.814	1.00	34.68
771	NE2	HIS	A	236	3.521	42.377	19.631	1.00	37.30
772	CD2	HIS	A	236	2.262	42.718	19.199	1.00	31.95
773	C	HIS	A	236	-1.662	41.659	17.037	1.00	33.20
774	O	HIS	A	236	-2.310	42.653	17.319	1.00	32.96
775	N	LEU	A	237	-1.966	40.895	15.999	1.00	33.76
776	CA	LEU	A	237	-3.151	41.148	15.193	1.00	35.25
777	CB	LEU	A	237	-3.059	40.392	13.866	1.00	34.72
778	CG	LEU	A	237	-4.114	40.588	12.792	1.00	35.21
779	CD1	LEU	A	237	-4.107	42.012	12.307	1.00	34.74
780	CD2	LEU	A	237	-3.849	39.653	11.660	1.00	35.26
781	C	LEU	A	237	-4.451	40.778	15.976	1.00	37.03
782	O	LEU	A	237	-5.455	41.472	15.875	1.00	35.08
783	N	SER	A	238	-4.418	39.686	16.743	1.00	39.15
784	CA	SER	A	238	-5.562	39.315	17.600	1.00	40.93
785	CB	SER	A	238	-5.186	38.189	18.549	1.00	41.23
786	OG	SER	A	238	-4.834	37.060	17.790	1.00	44.46
787	C	SER	A	238	-6.010	40.484	18.438	1.00	41.92
788	O	SER	A	238	-7.182	40.886	18.365	1.00	42.51
789	N	ARG	A	239	-5.061	41.079	19.165	1.00	42.33
790	CA	ARG	A	239	-5.345	42.205	20.061	1.00	42.82
791	CB	ARG	A	239	-4.169	42.466	20.997	1.00	43.79
792	CG	ARG	A	239	-3.698	41.211	21.797	1.00	46.59
793	CD	ARG	A	239	-2.426	41.428	22.647	1.00	51.59
794	NE	ARG	A	239	-1.679	42.602	22.172	1.00	55.88
795	CZ	ARG	A	239	-0.390	42.621	21.784	1.00	56.40
796	NH1	ARG	A	239	0.114	43.767	21.325	1.00	53.22
797	NH2	ARG	A	239	0.389	41.523	21.867	1.00	59.60
798	C	ARG	A	239	-5.730	43.488	19.339	1.00	42.41
799	O	ARG	A	239	-6.567	44.243	19.832	1.00	43.11
800	N	GLU	A	240	-5.150	43.743	18.171	1.00	40.74
801	CA	GLU	A	240	-5.375	44.994	17.469	1.00	39.44
802	CB	GLU	A	240	-4.143	45.389	16.671	1.00	40.40
803	CG	GLU	A	240	-2.938	45.666	17.541	1.00	44.80
804	CD	GLU	A	240	-2.625	47.145	17.687	1.00	50.66
805	OE1	GLU	A	240	-1.438	47.427	18.000	1.00	53.92
806	OE2	GLU	A	240	-3.545	48.015	17.517	1.00	52.84
807	C	GLU	A	240	-6.523	44.896	16.502	1.00	37.57

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
808	O	GLU	A	240	-7.019	45.925	16.048	1.00	37.06
809	N	ARG	A	241	-6.901	43.656	16.181	1.00	35.42
810	CA	ARG	A	241	-7.916	43.283	15.190	1.00	34.60
811	CB	ARG	A	241	-9.282	43.944	15.501	1.00	35.77
812	CG	ARG	A	241	-9.538	44.023	17.032	1.00	40.66
813	CD	ARG	A	241	-10.911	43.557	17.486	1.00	49.26
814	NE	ARG	A	241	-11.999	44.155	16.700	1.00	54.30
815	CZ	ARG	A	241	-13.274	43.768	16.751	1.00	58.21
816	NH1	ARG	A	241	-14.177	44.384	15.984	1.00	60.74
817	NH2	ARG	A	241	-13.657	42.775	17.557	1.00	58.62
818	C	ARG	A	241	-7.464	43.501	13.755	1.00	32.45
819	O	ARG	A	241	-7.639	42.634	12.940	1.00	32.84
820	N	VAL	A	242	-6.824	44.625	13.454	1.00	30.95
821	CA	VAL	A	242	-6.507	45.014	12.099	1.00	30.79
822	CB	VAL	A	242	-7.730	45.678	11.411	1.00	31.41
823	CG1	VAL	A	242	-8.181	46.917	12.142	1.00	32.42
824	CG2	VAL	A	242	-7.483	46.010	10.040	1.00	33.11
825	C	VAL	A	242	-5.297	45.925	12.204	1.00	30.06
826	O	VAL	A	242	-5.158	46.640	13.180	1.00	29.32
827	N	PHE	A	243	-4.352	45.805	11.263	1.00	27.62
828	CA	PHE	A	243	-3.250	46.752	11.213	1.00	26.16
829	CB	PHE	A	243	-1.942	46.080	10.855	1.00	24.79
830	CG	PHE	A	243	-1.429	45.064	11.864	1.00	26.39
831	CD1	PHE	A	243	-0.595	44.065	11.439	1.00	23.32
832	CE1	PHE	A	243	-0.082	43.174	12.276	1.00	23.98
833	CZ	PHE	A	243	-0.325	43.278	13.596	1.00	23.20
834	CE2	PHE	A	243	-1.148	44.236	14.040	1.00	22.24
835	CD2	PHE	A	243	-1.661	45.159	13.215	1.00	24.14
836	C	PHE	A	243	-3.620	47.771	10.146	1.00	25.43
837	O	PHE	A	243	-4.417	47.470	9.211	1.00	25.04
838	N	SER	A	244	-3.097	49.001	10.287	1.00	25.12
839	CA	SER	A	244	-3.259	50.016	9.254	1.00	22.85
840	CB	SER	A	244	-2.590	51.333	9.653	1.00	22.93
841	OG	SER	A	244	-1.188	51.178	9.638	1.00	23.17
842	C	SER	A	244	-2.551	49.505	7.967	1.00	22.52
843	O	SER	A	244	-1.648	48.645	8.021	1.00	21.62
844	N	GLU	A	245	-2.946	50.071	6.845	1.00	21.72
845	CA	GLU	A	245	-2.316	49.768	5.576	1.00	22.32
846	CB	GLU	A	245	-2.893	50.546	4.430	1.00	21.61
847	CG	GLU	A	245	-4.368	50.222	4.218	1.00	23.45
848	CD	GLU	A	245	-4.831	50.628	2.846	1.00	23.93
849	OE1	GLU	A	245	-6.025	50.832	2.694	1.00	28.22
850	OE2	GLU	A	245	-3.991	50.824	1.919	1.00	28.46
851	C	GLU	A	245	-0.806	50.023	5.647	1.00	22.17
852	O	GLU	A	245	-0.046	49.207	5.100	1.00	19.46
853	N	ASP	A	246	-0.399	51.079	6.333	1.00	20.83
854	CA	ASP	A	246	1.033	51.418	6.351	1.00	23.13
855	CB	ASP	A	246	1.333	52.866	6.714	1.00	23.29
856	CG	ASP	A	246	2.779	53.230	6.342	1.00	26.73
857	OD1	ASP	A	246	3.146	53.104	5.135	1.00	27.69
858	OD2	ASP	A	246	3.625	53.616	7.180	1.00	31.09

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
859	C	ASP	A	246	1.874	50.463	7.197	1.00	22.65
860	O	ASP	A	246	2.984	50.064	6.826	1.00	21.09
861	N	ARG	A	247	1.301	50.032	8.294	1.00	22.78
862	CA	ARG	A	247	1.939	49.013	9.094	1.00	22.68
863	CB	ARG	A	247	1.178	48.864	10.416	1.00	22.58
864	CG	ARG	A	247	1.647	47.785	11.286	1.00	25.96
865	CD	ARG	A	247	1.302	48.014	12.735	1.00	32.03
866	NE	ARG	A	247	1.813	46.920	13.546	1.00	29.53
867	CZ	ARG	A	247	1.346	46.612	14.755	1.00	31.25
868	NH1	ARG	A	247	0.403	47.352	15.322	1.00	29.54
869	NH2	ARG	A	247	1.868	45.597	15.433	1.00	30.76
870	C	ARG	A	247	2.015	47.696	8.347	1.00	22.31
871	O	ARG	A	247	3.048	47.012	8.416	1.00	18.57
872	N	THR	A	248	0.938	47.349	7.627	1.00	21.73
873	CA	THR	A	248	0.954	46.144	6.807	1.00	22.28
874	CB	THR	A	248	-0.385	45.849	6.196	1.00	23.04
875	OG1	THR	A	248	-1.371	45.698	7.224	1.00	21.20
876	CG2	THR	A	248	-0.363	44.532	5.484	1.00	23.28
877	C	THR	A	248	2.000	46.235	5.701	1.00	21.54
878	O	THR	A	248	2.757	45.284	5.441	1.00	19.91
879	N	ARG	A	249	2.011	47.374	5.048	1.00	21.79
880	CA	ARG	A	249	3.042	47.717	4.079	1.00	22.13
881	CB	ARG	A	249	2.926	49.148	3.650	1.00	22.36
882	CG	ARG	A	249	4.086	49.642	2.725	1.00	22.21
883	CD	ARG	A	249	3.929	51.028	2.297	1.00	24.82
884	NE	ARG	A	249	2.723	51.190	1.471	1.00	26.63
885	CZ	ARG	A	249	1.635	51.848	1.799	1.00	22.82
886	NH1	ARG	A	249	1.498	52.466	2.966	1.00	22.73
887	NH2	ARG	A	249	0.681	51.916	0.908	1.00	24.89
888	C	ARG	A	249	4.456	47.516	4.602	1.00	21.40
889	O	ARG	A	249	5.321	47.028	3.900	1.00	20.28
890	N	PHE	A	250	4.672	47.898	5.831	1.00	21.38
891	CA	PHE	A	250	5.977	47.753	6.444	1.00	21.64
892	CB	PHE	A	250	6.033	48.508	7.783	1.00	22.55
893	CG	PHE	A	250	7.215	48.127	8.639	1.00	21.61
894	CD1	PHE	A	250	8.396	48.853	8.559	1.00	25.73
895	CE1	PHE	A	250	9.546	48.481	9.327	1.00	26.87
896	CZ	PHE	A	250	9.483	47.417	10.162	1.00	25.82
897	CE2	PHE	A	250	8.231	46.662	10.279	1.00	26.31
898	CD2	PHE	A	250	7.152	47.020	9.481	1.00	25.82
899	C	PHE	A	250	6.305	46.271	6.646	1.00	20.13
900	O	PHE	A	250	7.384	45.814	6.283	1.00	18.97
901	N	TYR	A	251	5.362	45.471	7.172	1.00	21.72
902	CA	TYR	A	251	5.657	44.047	7.344	1.00	21.46
903	CB	TYR	A	251	4.631	43.343	8.222	1.00	23.43
904	CG	TYR	A	251	4.535	43.895	9.618	1.00	23.56
905	CD1	TYR	A	251	3.287	44.113	10.215	1.00	25.34
906	CE1	TYR	A	251	3.206	44.620	11.536	1.00	24.06
907	CZ	TYR	A	251	4.368	44.925	12.196	1.00	25.14
908	OH	TYR	A	251	4.321	45.412	13.463	1.00	26.23
909	CE2	TYR	A	251	5.610	44.705	11.598	1.00	24.32

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
910	CD2	TYR	A	251	5.675	44.203	10.348	1.00	24.40
911	C	TYR	A	251	5.766	43.389	6.018	1.00	19.73
912	O	TYR	A	251	6.639	42.546	5.781	1.00	20.27
913	N	GLY	A	252	4.864	43.725	5.131	1.00	19.43
914	CA	GLY	A	252	4.901	43.185	3.775	1.00	19.08
915	C	GLY	A	252	6.195	43.404	3.013	1.00	18.06
916	O	GLY	A	252	6.705	42.498	2.292	1.00	19.99
917	N	ALA	A	253	6.742	44.591	3.126	1.00	17.75
918	CA	ALA	A	253	7.993	44.889	2.439	1.00	16.77
919	CB	ALA	A	253	8.356	46.288	2.634	1.00	18.73
920	C	ALA	A	253	9.100	44.018	2.981	1.00	17.45
921	O	ALA	A	253	9.889	43.492	2.217	1.00	17.68
922	N	GLU	A	254	9.198	43.891	4.313	1.00	18.65
923	CA	GLU	A	254	10.226	43.063	4.918	1.00	19.23
924	CB	GLU	A	254	10.252	43.268	6.427	1.00	19.92
925	CG	GLU	A	254	10.505	44.668	6.798	1.00	18.63
926	CD	GLU	A	254	10.963	44.835	8.216	1.00	23.18
927	OE1	GLU	A	254	10.469	44.076	9.069	1.00	20.45
928	OE2	GLU	A	254	11.763	45.780	8.480	1.00	22.90
929	C	GLU	A	254	10.099	41.598	4.507	1.00	20.78
930	O	GLU	A	254	11.071	41.001	4.101	1.00	23.34
931	N	ILE	A	255	8.888	41.063	4.466	1.00	21.92
932	CA	ILE	A	255	8.634	39.725	3.975	1.00	20.76
933	CB	ILE	A	255	7.139	39.354	4.172	1.00	21.33
934	CG1	ILE	A	255	6.745	39.360	5.662	1.00	22.43
935	CD1	ILE	A	255	5.270	39.208	5.881	1.00	21.96
936	CG2	ILE	A	255	6.812	37.998	3.520	1.00	23.09
937	C	ILE	A	255	9.007	39.618	2.495	1.00	21.60
938	O	ILE	A	255	9.621	38.628	2.074	1.00	21.03
939	N	VAL	A	256	8.592	40.585	1.692	1.00	21.12
940	CA	VAL	A	256	8.963	40.595	0.258	1.00	20.94
941	CB	VAL	A	256	8.417	41.817	-0.437	1.00	21.78
942	CG1	VAL	A	256	9.103	42.052	-1.784	1.00	23.92
943	CG2	VAL	A	256	6.884	41.686	-0.652	1.00	20.75
944	C	VAL	A	256	10.485	40.520	0.098	1.00	21.95
945	O	VAL	A	256	10.995	39.768	-0.714	1.00	20.00
946	N	SER	A	257	11.205	41.281	0.918	1.00	22.44
947	CA	SER	A	257	12.651	41.287	0.884	1.00	21.70
948	CB	SER	A	257	13.194	42.228	1.892	1.00	21.86
949	OG	SER	A	257	14.579	42.349	1.738	1.00	22.08
950	C	SER	A	257	13.231	39.907	1.134	1.00	21.79
951	O	SER	A	257	14.102	39.469	0.345	1.00	20.59
952	N	ALA	A	258	12.754	39.239	2.189	1.00	22.18
953	CA	ALA	A	258	13.166	37.864	2.481	1.00	23.73
954	CB	ALA	A	258	12.583	37.334	3.789	1.00	22.49
955	C	ALA	A	258	12.831	36.920	1.341	1.00	24.04
956	O	ALA	A	258	13.660	36.089	0.967	1.00	24.46
957	N	LEU	A	259	11.640	37.025	0.783	1.00	24.97
958	CA	LEU	A	259	11.250	36.068	-0.253	1.00	25.73
959	CB	LEU	A	259	9.755	36.084	-0.510	1.00	26.21
960	CG	LEU	A	259	8.848	35.670	0.635	1.00	25.77

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
961	CD1	LEU	A	259	7.473	36.038	0.291	1.00	25.09
962	CD2	LEU	A	259	8.920	34.251	0.840	1.00	28.71
963	C	LEU	A	259	12.025	36.306	-1.547	1.00	25.63
964	O	LEU	A	259	12.378	35.371	-2.225	1.00	24.57
965	N	ASP	A	260	12.327	37.559	-1.858	1.00	26.41
966	CA	ASP	A	260	13.150	37.856	-3.007	1.00	27.18
967	CB	ASP	A	260	13.366	39.354	-3.083	1.00	27.69
968	CG	ASP	A	260	14.244	39.775	-4.245	1.00	27.39
969	OD1	ASP	A	260	14.959	40.747	-4.093	1.00	26.79
970	OD2	ASP	A	260	14.297	39.199	-5.344	1.00	30.71
971	C	ASP	A	260	14.497	37.115	-2.835	1.00	27.61
972	O	ASP	A	260	14.915	36.435	-3.729	1.00	27.56
973	N	TYR	A	261	15.152	37.270	-1.679	1.00	27.09
974	CA	TYR	A	261	16.397	36.602	-1.363	1.00	27.34
975	CB	TYR	A	261	16.805	36.985	0.063	1.00	27.51
976	CG	TYR	A	261	17.902	36.083	0.642	1.00	28.63
977	CD1	TYR	A	261	17.587	35.096	1.573	1.00	29.48
978	CE1	TYR	A	261	18.560	34.295	2.131	1.00	30.22
979	CZ	TYR	A	261	19.861	34.390	1.687	1.00	31.30
980	OH	TYR	A	261	20.790	33.541	2.261	1.00	35.01
981	CE2	TYR	A	261	20.211	35.301	0.705	1.00	26.41
982	CD2	TYR	A	261	19.223	36.168	0.202	1.00	26.63
983	C	TYR	A	261	16.336	35.058	-1.494	1.00	28.06
984	O	TYR	A	261	17.188	34.415	-2.115	1.00	29.23
985	N	LEU	A	262	15.325	34.474	-0.883	1.00	28.62
986	CA	LEU	A	262	15.096	33.048	-0.941	1.00	27.41
987	CB	LEU	A	262	13.920	32.636	-0.066	1.00	26.54
988	CG	LEU	A	262	14.224	32.603	1.432	1.00	27.60
989	CD1	LEU	A	262	12.924	32.302	2.162	1.00	28.93
990	CD2	LEU	A	262	15.345	31.596	1.877	1.00	28.18
991	C	LEU	A	262	14.921	32.561	-2.374	1.00	26.95
992	O	LEU	A	262	15.618	31.627	-2.792	1.00	26.42
993	N	HIS	A	263	14.048	33.201	-3.131	1.00	27.06
994	CA	HIS	A	263	13.862	32.859	-4.561	1.00	26.94
995	CB	HIS	A	263	12.728	33.638	-5.201	1.00	25.67
996	CG	HIS	A	263	11.419	33.377	-4.557	1.00	22.17
997	ND1	HIS	A	263	10.338	34.191	-4.704	1.00	18.69
998	CE1	HIS	A	263	9.330	33.726	-3.991	1.00	19.70
999	NE2	HIS	A	263	9.707	32.604	-3.437	1.00	23.80
1000	CD2	HIS	A	263	11.022	32.372	-3.767	1.00	20.64
1001	C	HIS	A	263	15.080	33.011	-5.439	1.00	28.42
1002	O	HIS	A	263	15.273	32.219	-6.317	1.00	29.97
1003	N	SER	A	264	15.842	34.079	-5.237	1.00	29.39
1004	CA	SER	A	264	17.086	34.269	-5.908	1.00	30.32
1005	CB	SER	A	264	17.737	35.546	-5.430	1.00	30.28
1006	OG	SER	A	264	18.367	35.287	-4.139	1.00	35.06
1007	C	SER	A	264	18.030	33.087	-5.642	1.00	30.94
1008	O	SER	A	264	18.832	32.808	-6.478	1.00	30.95
1009	N	GLY	A	265	17.935	32.444	-4.473	1.00	31.74
1010	CA	GLY	A	265	18.637	31.215	-4.186	1.00	32.11
1011	C	GLY	A	265	17.884	29.949	-4.541	1.00	32.76

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1012	O	GLY	A	265	18.229	28.852	-4.072	1.00	33.14
1013	N	LYS	A	266	16.852	30.075	-5.361	1.00	33.66
1014	CA	LYS	A	266	16.087	28.913	-5.830	1.00	34.59
1015	CB	LYS	A	266	16.989	27.969	-6.671	1.00	35.67
1016	CG	LYS	A	266	17.583	28.673	-7.931	1.00	38.24
1017	CD	LYS	A	266	19.134	28.487	-8.038	1.00	44.00
1018	CE	LYS	A	266	20.012	29.495	-7.186	1.00	43.89
1019	NZ	LYS	A	266	21.464	29.049	-7.107	1.00	41.88
1020	C	LYS	A	266	15.403	28.156	-4.707	1.00	34.02
1021	O	LYS	A	266	15.176	26.947	-4.834	1.00	35.42
1022	N	ILE	A	267	15.043	28.877	-3.635	1.00	32.73
1023	CA	ILE	A	267	14.295	28.328	-2.511	1.00	32.17
1024	CB	ILE	A	267	14.969	28.645	-1.173	1.00	32.82
1025	CG1	ILE	A	267	16.307	27.900	-1.067	1.00	34.90
1026	CD1	ILE	A	267	17.181	28.458	0.020	1.00	39.76
1027	CG2	ILE	A	267	14.059	28.225	0.030	1.00	33.79
1028	C	ILE	A	267	12.871	28.875	-2.533	1.00	31.89
1029	O	ILE	A	267	12.633	30.076	-2.806	1.00	31.10
1030	N	VAL	A	268	11.928	27.966	-2.318	1.00	30.53
1031	CA	VAL	A	268	10.560	28.309	-2.120	1.00	30.99
1032	CB	VAL	A	268	9.584	27.366	-2.903	1.00	30.76
1033	CG1	VAL	A	268	8.178	27.884	-2.722	1.00	30.49
1034	CG2	VAL	A	268	9.890	27.354	-4.346	1.00	33.10
1035	C	VAL	A	268	10.281	28.117	-0.638	1.00	30.34
1036	O	VAL	A	268	10.523	27.040	-0.118	1.00	28.16
1037	N	TYR	A	269	9.713	29.131	0.028	1.00	30.42
1038	CA	TYR	A	269	9.455	29.020	1.450	1.00	30.59
1039	CB	TYR	A	269	9.344	30.413	2.093	1.00	31.42
1040	CG	TYR	A	269	9.331	30.372	3.563	1.00	31.50
1041	CD1	TYR	A	269	8.220	30.710	4.259	1.00	33.60
1042	CE1	TYR	A	269	8.192	30.642	5.606	1.00	35.63
1043	CZ	TYR	A	269	9.285	30.207	6.283	1.00	38.00
1044	OH	TYR	A	269	9.234	30.093	7.665	1.00	45.14
1045	CE2	TYR	A	269	10.421	29.847	5.620	1.00	37.55
1046	CD2	TYR	A	269	10.439	29.916	4.268	1.00	37.11
1047	C	TYR	A	269	8.261	28.112	1.828	1.00	31.52
1048	O	TYR	A	269	8.356	27.318	2.807	1.00	30.25
1049	N	ARG	A	270	7.151	28.227	1.093	1.00	31.50
1050	CA	ARG	A	270	5.946	27.376	1.246	1.00	32.42
1051	CB	ARG	A	270	6.238	25.864	1.084	1.00	34.10
1052	CG	ARG	A	270	7.040	25.386	-0.128	1.00	37.73
1053	CD	ARG	A	270	7.973	24.179	0.120	1.00	45.29
1054	NE	ARG	A	270	9.218	24.576	0.860	1.00	53.01
1055	CZ	ARG	A	270	10.478	24.119	0.639	1.00	52.63
1056	NH1	ARG	A	270	10.733	23.214	-0.308	1.00	51.30
1057	NH2	ARG	A	270	11.486	24.595	1.380	1.00	52.51
1058	C	ARG	A	270	5.214	27.573	2.585	1.00	32.66
1059	O	ARG	A	270	4.015	27.362	2.651	1.00	32.51
1060	N	ASP	A	271	5.914	28.003	3.632	1.00	32.77
1061	CA	ASP	A	271	5.396	27.930	5.001	1.00	33.99
1062	CB	ASP	A	271	6.488	27.354	5.931	1.00	34.49

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1063	CG	ASP	A	271	6.717	25.860	5.733	1.00	35.71
1064	OD1	ASP	A	271	6.066	25.246	4.877	1.00	38.14
1065	OD2	ASP	A	271	7.548	25.208	6.401	1.00	41.97
1066	C	ASP	A	271	5.006	29.306	5.509	1.00	34.63
1067	O	ASP	A	271	4.922	29.506	6.745	1.00	35.15
1068	N	LEU	A	272	4.803	30.266	4.582	1.00	34.31
1069	CA	LEU	A	272	4.461	31.623	4.961	1.00	34.56
1070	CB	LEU	A	272	4.593	32.628	3.812	1.00	35.18
1071	CG	LEU	A	272	5.000	34.089	4.093	1.00	34.95
1072	CD1	LEU	A	272	4.306	35.045	3.129	1.00	35.50
1073	CD2	LEU	A	272	4.856	34.512	5.516	1.00	33.99
1074	C	LEU	A	272	3.047	31.658	5.470	1.00	33.89
1075	O	LEU	A	272	2.099	31.328	4.767	1.00	34.24
1076	N	LYS	A	273	2.920	32.111	6.697	1.00	33.64
1077	CA	LYS	A	273	1.612	32.280	7.323	1.00	32.43
1078	CB	LYS	A	273	0.965	30.945	7.701	1.00	32.54
1079	CG	LYS	A	273	1.647	30.146	8.822	1.00	33.11
1080	CD	LYS	A	273	1.081	28.655	8.924	1.00	35.90
1081	CE	LYS	A	273	2.089	27.561	8.430	1.00	35.49
1082	NZ	LYS	A	273	1.486	26.153	8.578	1.00	41.33
1083	C	LYS	A	273	1.843	33.125	8.520	1.00	30.78
1084	O	LYS	A	273	2.982	33.262	8.927	1.00	30.02
1085	N	LEU	A	274	0.756	33.677	9.078	1.00	29.80
1086	CA	LEU	A	274	0.821	34.673	10.133	1.00	30.63
1087	CB	LEU	A	274	-0.591	35.143	10.426	1.00	31.41
1088	CG	LEU	A	274	-0.792	36.267	11.416	1.00	34.36
1089	CD1	LEU	A	274	-0.233	37.579	10.822	1.00	34.62
1090	CD2	LEU	A	274	-2.296	36.357	11.691	1.00	35.88
1091	C	LEU	A	274	1.502	34.159	11.390	1.00	30.57
1092	O	LEU	A	274	2.316	34.822	11.987	1.00	29.18
1093	N	GLU	A	275	1.193	32.919	11.719	1.00	31.86
1094	CA	GLU	A	275	1.826	32.157	12.803	1.00	33.17
1095	CB	GLU	A	275	1.119	30.794	12.872	1.00	34.59
1096	CG	GLU	A	275	-0.389	30.984	13.169	1.00	38.41
1097	CD	GLU	A	275	-1.310	30.775	11.956	1.00	46.05
1098	OE1	GLU	A	275	-1.151	31.414	10.853	1.00	44.97
1099	OE2	GLU	A	275	-2.241	29.961	12.125	1.00	51.01
1100	C	GLU	A	275	3.368	31.973	12.666	1.00	32.00
1101	O	GLU	A	275	4.044	31.744	13.667	1.00	31.96
1102	N	ASN	A	276	3.906	32.103	11.451	1.00	29.62
1103	CA	ASN	A	276	5.346	32.006	11.216	1.00	29.68
1104	CB	ASN	A	276	5.634	31.194	9.928	1.00	29.45
1105	CG	ASN	A	276	5.527	29.635	10.154	1.00	32.16
1106	OD1	ASN	A	276	5.415	29.174	11.271	1.00	32.76
1107	ND2	ASN	A	276	5.591	28.870	9.086	1.00	31.97
1108	C	ASN	A	276	6.058	33.358	11.133	1.00	29.11
1109	O	ASN	A	276	7.130	33.445	10.579	1.00	29.92
1110	N	LEU	A	277	5.422	34.399	11.654	1.00	28.83
1111	CA	LEU	A	277	5.893	35.762	11.593	1.00	27.79
1112	CB	LEU	A	277	4.933	36.656	10.798	1.00	26.69
1113	CG	LEU	A	277	4.757	36.361	9.287	1.00	26.91

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1114	CD1	LEU	A	277	3.726	37.285	8.709	1.00	25.76
1115	CD2	LEU	A	277	6.028	36.404	8.554	1.00	25.32
1116	C	LEU	A	277	5.991	36.235	13.026	1.00	27.70
1117	O	LEU	A	277	5.038	36.165	13.771	1.00	30.28
1118	N	MET	A	278	7.136	36.712	13.414	1.00	28.30
1119	CA	MET	A	278	7.333	37.254	14.740	1.00	29.84
1120	CB	MET	A	278	8.336	36.407	15.499	1.00	29.99
1121	CG	MET	A	278	7.765	35.024	15.823	1.00	37.12
1122	SD	MET	A	278	8.596	34.264	17.262	1.00	45.50
1123	CE	MET	A	278	7.661	35.024	18.482	1.00	47.33
1124	C	MET	A	278	7.922	38.606	14.591	1.00	28.58
1125	O	MET	A	278	8.304	38.957	13.508	1.00	27.99
1126	N	LEU	A	279	8.028	39.354	15.687	1.00	27.04
1127	CA	LEU	A	279	8.750	40.605	15.625	1.00	27.02
1128	CB	LEU	A	279	7.906	41.712	16.165	1.00	26.13
1129	CG	LEU	A	279	6.571	42.004	15.472	1.00	29.67
1130	CD1	LEU	A	279	6.018	43.232	16.052	1.00	27.80
1131	CD2	LEU	A	279	6.762	42.158	13.995	1.00	28.96
1132	C	LEU	A	279	9.966	40.451	16.484	1.00	25.67
1133	O	LEU	A	279	9.897	39.803	17.478	1.00	24.03
1134	N	ASP	A	280	11.048	41.104	16.118	1.00	26.47
1135	CA	ASP	A	280	12.207	41.181	16.961	1.00	27.07
1136	CB	ASP	A	280	13.486	41.241	16.130	1.00	25.81
1137	CG	ASP	A	280	13.674	42.548	15.367	1.00	25.82
1138	OD1	ASP	A	280	12.943	43.574	15.602	1.00	25.20
1139	OD2	ASP	A	280	14.557	42.649	14.497	1.00	22.34
1140	C	ASP	A	280	12.027	42.356	17.917	1.00	29.22
1141	O	ASP	A	280	11.043	43.113	17.848	1.00	29.35
1142	N	LYS	A	281	12.986	42.518	18.800	1.00	31.63
1143	CA	LYS	A	281	12.867	43.499	19.870	1.00	33.75
1144	CB	LYS	A	281	14.118	43.458	20.770	1.00	34.90
1145	CG	LYS	A	281	15.254	44.403	20.463	1.00	37.97
1146	CD	LYS	A	281	16.421	43.754	19.753	1.00	46.47
1147	CE	LYS	A	281	17.448	43.257	20.724	1.00	49.32
1148	NZ	LYS	A	281	16.881	42.069	21.453	1.00	53.87
1149	C	LYS	A	281	12.604	44.916	19.307	1.00	33.40
1150	O	LYS	A	281	11.990	45.745	19.982	1.00	32.50
1151	N	ASP	A	282	13.063	45.163	18.072	1.00	32.45
1152	CA	ASP	A	282	12.923	46.477	17.429	1.00	32.13
1153	CB	ASP	A	282	14.159	46.758	16.553	1.00	32.63
1154	CG	ASP	A	282	15.417	46.862	17.373	1.00	31.55
1155	OD1	ASP	A	282	15.429	47.661	18.313	1.00	35.08
1156	OD2	ASP	A	282	16.380	46.132	17.258	1.00	35.53
1157	C	ASP	A	282	11.620	46.664	16.632	1.00	31.63
1158	O	ASP	A	282	11.355	47.762	16.160	1.00	31.26
1159	N	GLY	A	283	10.798	45.606	16.497	1.00	30.18
1160	CA	GLY	A	283	9.597	45.672	15.665	1.00	29.39
1161	C	GLY	A	283	9.753	45.309	14.192	1.00	28.80
1162	O	GLY	A	283	8.757	45.492	13.423	1.00	28.55
1163	N	HIS	A	284	10.951	44.842	13.789	1.00	26.87
1164	CA	HIS	A	284	11.188	44.252	12.447	1.00	26.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1165	CB	HIS	A	284	12.692	44.283	12.002	1.00	27.01
1166	CG	HIS	A	284	13.201	45.654	11.762	1.00	25.98
1167	ND1	HIS	A	284	12.601	46.489	10.864	1.00	23.47
1168	CE1	HIS	A	284	13.181	47.684	10.930	1.00	30.83
1169	NE2	HIS	A	284	14.182	47.622	11.790	1.00	26.45
1170	CD2	HIS	A	284	14.219	46.362	12.323	1.00	27.01
1171	C	HIS	A	284	10.695	42.791	12.424	1.00	27.75
1172	O	HIS	A	284	10.632	42.108	13.454	1.00	28.66
1173	N	ILE	A	285	10.387	42.310	11.235	1.00	27.80
1174	CA	ILE	A	285	9.837	40.993	11.056	1.00	28.29
1175	CB	ILE	A	285	8.990	40.901	9.739	1.00	29.57
1176	CG1	ILE	A	285	7.591	40.385	10.080	1.00	32.65
1177	CD1	ILE	A	285	6.589	40.973	9.384	1.00	34.40
1178	CG2	ILE	A	285	9.535	39.930	8.777	1.00	31.57
1179	C	ILE	A	285	10.934	39.962	11.123	1.00	28.06
1180	O	ILE	A	285	12.060	40.201	10.794	1.00	26.08
1181	N	LYS	A	286	10.554	38.793	11.583	1.00	28.68
1182	CA	LYS	A	286	11.423	37.673	11.551	1.00	29.29
1183	CB	LYS	A	286	12.144	37.535	12.865	1.00	29.53
1184	CG	LYS	A	286	13.581	37.204	12.654	1.00	31.76
1185	CD	LYS	A	286	14.508	38.382	12.814	1.00	34.00
1186	CE	LYS	A	286	15.821	37.936	12.240	1.00	36.66
1187	NZ	LYS	A	286	16.953	38.853	12.397	1.00	38.45
1188	C	LYS	A	286	10.514	36.523	11.195	1.00	30.07
1189	O	LYS	A	286	9.569	36.196	11.925	1.00	31.14
1190	N	ILE	A	287	10.761	35.956	10.015	1.00	30.63
1191	CA	ILE	A	287	10.072	34.763	9.602	1.00	33.01
1192	CB	ILE	A	287	10.189	34.574	8.116	1.00	32.75
1193	CG1	ILE	A	287	9.706	35.812	7.402	1.00	28.88
1194	CD1	ILE	A	287	9.996	35.828	6.006	1.00	30.66
1195	CG2	ILE	A	287	9.431	33.334	7.738	1.00	34.40
1196	C	ILE	A	287	10.703	33.543	10.312	1.00	34.96
1197	O	ILE	A	287	11.909	33.289	10.193	1.00	34.06
1198	N	THR	A	288	9.874	32.797	11.005	1.00	37.62
1199	CA	THR	A	288	10.336	31.714	11.819	1.00	41.84
1200	CB	THR	A	288	10.663	32.209	13.222	1.00	42.16
1201	OG1	THR	A	288	10.783	31.082	14.117	1.00	49.33
1202	CG2	THR	A	288	9.562	32.974	13.810	1.00	40.34
1203	C	THR	A	288	9.353	30.566	11.924	1.00	44.96
1204	O	THR	A	288	8.156	30.671	11.627	1.00	46.08
1205	N	ASP	A	289	9.907	29.441	12.339	1.00	48.34
1206	CA	ASP	A	289	9.159	28.236	12.561	1.00	50.20
1207	CB	ASP	A	289	9.588	27.209	11.526	1.00	50.63
1208	CG	ASP	A	289	8.886	25.898	11.702	1.00	52.58
1209	OD1	ASP	A	289	7.733	25.931	12.178	1.00	56.25
1210	OD2	ASP	A	289	9.391	24.800	11.399	1.00	55.66
1211	C	ASP	A	289	9.531	27.801	13.982	1.00	51.29
1212	O	ASP	A	289	10.534	27.088	14.184	1.00	51.86

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1218	N	ALA	A	310	-3.839	25.261	6.463	1.00	48.88
1219	CA	ALA	A	310	-4.416	24.894	5.157	1.00	47.76
1220	CB	ALA	A	310	-5.095	23.596	5.246	1.00	48.51
1221	C	ALA	A	310	-5.388	25.937	4.548	1.00	47.69
1222	O	ALA	A	310	-5.769	25.851	3.354	1.00	46.74
1223	N	ALA	A	311	-5.788	26.915	5.360	1.00	46.47
1224	CA	ALA	A	311	-6.417	28.134	4.838	1.00	45.80
1225	CB	ALA	A	311	-7.020	28.974	6.000	1.00	45.55
1226	C	ALA	A	311	-5.401	28.965	4.000	1.00	44.30
1227	O	ALA	A	311	-5.769	29.959	3.352	1.00	44.24
1228	N	TYR	A	312	-4.142	28.516	3.997	1.00	42.33
1229	CA	TYR	A	312	-3.083	29.159	3.270	1.00	41.51
1230	CB	TYR	A	312	-1.824	29.190	4.113	1.00	41.43
1231	CG	TYR	A	312	-1.886	30.248	5.176	1.00	41.63
1232	CD1	TYR	A	312	-2.406	29.952	6.434	1.00	40.11
1233	CE1	TYR	A	312	-2.475	30.907	7.420	1.00	44.04
1234	CZ	TYR	A	312	-2.015	32.197	7.153	1.00	42.14
1235	OH	TYR	A	312	-2.072	33.136	8.132	1.00	43.35
1236	CE2	TYR	A	312	-1.507	32.523	5.903	1.00	42.78
1237	CD2	TYR	A	312	-1.437	31.545	4.920	1.00	41.84
1238	C	TYR	A	312	-2.752	28.483	1.978	1.00	41.09
1239	O	TYR	A	312	-1.899	28.988	1.240	1.00	41.27
1240	N	LEU	A	313	-3.396	27.367	1.666	1.00	39.84
1241	CA	LEU	A	313	-2.930	26.598	0.508	1.00	39.72
1242	CB	LEU	A	313	-3.424	25.146	0.562	1.00	40.24
1243	CG	LEU	A	313	-2.845	24.377	1.760	1.00	42.25
1244	CD1	LEU	A	313	-3.576	23.073	1.945	1.00	45.88
1245	CD2	LEU	A	313	-1.357	24.137	1.572	1.00	45.90
1246	C	LEU	A	313	-3.310	27.308	-0.786	1.00	37.48
1247	O	LEU	A	313	-4.399	27.798	-0.930	1.00	36.25
1248	N	ALA	A	314	-2.349	27.426	-1.687	1.00	37.11
1249	CA	ALA	A	314	-2.560	28.107	-2.942	1.00	37.08
1250	CB	ALA	A	314	-1.252	28.480	-3.529	1.00	36.54
1251	C	ALA	A	314	-3.318	27.202	-3.911	1.00	37.20
1252	O	ALA	A	314	-3.135	25.992	-3.902	1.00	36.19
1253	N	PRO	A	315	-4.090	27.789	-4.807	1.00	37.50
1254	CA	PRO	A	315	-4.874	26.997	-5.757	1.00	37.89
1255	CB	PRO	A	315	-5.396	28.029	-6.744	1.00	37.58
1256	CG	PRO	A	315	-5.304	29.326	-6.046	1.00	37.46
1257	CD	PRO	A	315	-4.263	29.231	-5.001	1.00	37.56
1258	C	PRO	A	315	-3.996	25.945	-6.460	1.00	38.76
1259	O	PRO	A	315	-4.394	24.802	-6.460	1.00	39.54
1260	N	GLU	A	316	-2.841	26.316	-7.003	1.00	39.05
1261	CA	GLU	A	316	-2.002	25.390	-7.742	1.00	39.37
1262	CB	GLU	A	316	-0.816	26.092	-8.404	1.00	38.88
1263	CG	GLU	A	316	0.221	26.651	-7.436	1.00	36.82
1264	CD	GLU	A	316	-0.092	28.077	-7.025	1.00	32.38
1265	OE1	GLU	A	316	0.833	28.855	-6.706	1.00	34.71
1266	OE2	GLU	A	316	-1.256	28.430	-7.065	1.00	23.79

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1267	C	GLU	A	316	-1.479	24.185	-6.947	1.00	41.11
1268	O	GLU	A	316	-1.129	23.160	-7.569	1.00	41.25
1269	N	VAL	A	317	-1.383	24.275	-5.625	1.00	42.32
1270	CA	VAL	A	317	-1.018	23.072	-4.875	1.00	44.64
1271	CB	VAL	A	317	-0.208	23.289	-3.527	1.00	44.83
1272	CG1	VAL	A	317	0.406	24.697	-3.414	1.00	43.75
1273	CG2	VAL	A	317	-1.000	22.863	-2.280	1.00	46.07
1274	C	VAL	A	317	-2.260	22.167	-4.717	1.00	46.14
1275	O	VAL	A	317	-2.145	20.954	-4.814	1.00	45.21
1276	N	LEU	A	318	-3.433	22.767	-4.532	1.00	48.12
1277	CA	LEU	A	318	-4.684	22.000	-4.579	1.00	50.41
1278	CB	LEU	A	318	-5.911	22.913	-4.331	1.00	50.46
1279	CG	LEU	A	318	-5.896	23.647	-2.969	1.00	50.31
1280	CD1	LEU	A	318	-7.248	24.305	-2.604	1.00	48.93
1281	CD2	LEU	A	318	-5.412	22.747	-1.841	1.00	49.77
1282	C	LEU	A	318	-4.784	21.177	-5.893	1.00	51.59
1283	O	LEU	A	318	-4.792	19.941	-5.850	1.00	51.32
1284	N	GLU	A	319	-4.765	21.864	-7.039	1.00	53.07
1285	CA	GLU	A	319	-4.741	21.218	-8.365	1.00	54.48
1286	CB	GLU	A	319	-4.856	22.267	-9.470	1.00	54.86
1287	CG	GLU	A	319	-6.108	23.131	-9.409	1.00	57.53
1288	CD	GLU	A	319	-6.163	24.185	-10.499	1.00	61.78
1289	OE1	GLU	A	319	-5.072	24.656	-10.929	1.00	65.20
1290	OE2	GLU	A	319	-7.299	24.557	-10.908	1.00	63.11
1291	C	GLU	A	319	-3.479	20.376	-8.632	1.00	55.11
1292	O	GLU	A	319	-3.387	19.697	-9.652	1.00	54.54
1293	N	ASP	A	320	-2.505	20.471	-7.726	1.00	56.22
1294	CA	ASP	A	320	-1.234	19.760	-7.804	1.00	57.07
1295	CB	ASP	A	320	-1.455	18.235	-7.861	1.00	57.58
1296	CG	ASP	A	320	-0.179	17.449	-7.645	1.00	58.44
1297	OD1	ASP	A	320	0.742	18.004	-6.991	1.00	60.58
1298	OD2	ASP	A	320	-0.005	16.284	-8.100	1.00	60.04
1299	C	ASP	A	320	-0.388	20.257	-8.977	1.00	57.41
1300	O	ASP	A	320	-0.716	20.024	-10.135	1.00	58.00
1313	N	GLY	A	324	5.603	26.512	-7.760	1.00	34.10
1314	CA	GLY	A	324	6.899	27.057	-7.457	1.00	31.14
1315	C	GLY	A	324	6.866	28.292	-6.556	1.00	29.43
1316	O	GLY	A	324	6.074	28.428	-5.609	1.00	27.34

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1317	N	ARG	A	325	7.748	29.222	-6.888	1.00	27.50
1318	CA	ARG	A	325	7.972	30.369	-6.066	1.00	27.57
1319	CB	ARG	A	325	9.165	31.105	-6.616	1.00	27.61
1320	CG	ARG	A	325	8.930	31.703	-7.906	1.00	28.72
1321	CD	ARG	A	325	10.160	32.213	-8.615	1.00	32.95
1322	NE	ARG	A	325	9.872	32.232	-10.050	1.00	33.69
1323	CZ	ARG	A	325	9.072	33.078	-10.672	1.00	32.54
1324	NH1	ARG	A	325	8.886	32.929	-11.989	1.00	34.44
1325	NH2	ARG	A	325	8.496	34.090	-10.032	1.00	32.26
1326	C	ARG	A	325	6.680	31.250	-5.961	1.00	27.17
1327	O	ARG	A	325	6.449	31.899	-4.962	1.00	26.97
1328	N	ALA	A	326	5.790	31.135	-6.931	1.00	25.46
1329	CA	ALA	A	326	4.560	31.876	-6.917	1.00	27.38
1330	CB	ALA	A	326	3.781	31.667	-8.242	1.00	27.48
1331	C	ALA	A	326	3.678	31.558	-5.728	1.00	26.95
1332	O	ALA	A	326	2.882	32.416	-5.345	1.00	27.55
1333	N	VAL	A	327	3.768	30.357	-5.154	1.00	26.30
1334	CA	VAL	A	327	2.950	30.053	-3.968	1.00	26.28
1335	CB	VAL	A	327	3.015	28.556	-3.430	1.00	27.10
1336	CG1	VAL	A	327	2.760	27.592	-4.477	1.00	29.10
1337	CG2	VAL	A	327	4.321	28.239	-2.763	1.00	30.22
1338	C	VAL	A	327	3.316	30.958	-2.793	1.00	25.11
1339	O	VAL	A	327	2.507	31.151	-1.926	1.00	23.28
1340	N	ASP	A	328	4.537	31.510	-2.763	1.00	24.80
1341	CA	ASP	A	328	4.920	32.384	-1.669	1.00	24.22
1342	CB	ASP	A	328	6.414	32.609	-1.594	1.00	23.46
1343	CG	ASP	A	328	7.162	31.390	-1.131	1.00	25.77
1344	OD1	ASP	A	328	8.386	31.261	-1.486	1.00	21.78
1345	OD2	ASP	A	328	6.597	30.551	-0.405	1.00	19.33
1346	C	ASP	A	328	4.233	33.736	-1.809	1.00	24.05
1347	O	ASP	A	328	4.031	34.381	-0.839	1.00	23.44
1348	N	TRP	A	329	3.937	34.154	-3.017	1.00	22.55
1349	CA	TRP	A	329	3.192	35.361	-3.231	1.00	23.10
1350	CB	TRP	A	329	3.335	35.802	-4.706	1.00	23.96
1351	CG	TRP	A	329	4.779	35.975	-5.043	1.00	24.02
1352	CD1	TRP	A	329	5.428	35.444	-6.117	1.00	25.23
1353	NE1	TRP	A	329	6.758	35.795	-6.091	1.00	20.77
1354	CE2	TRP	A	329	6.995	36.573	-5.005	1.00	22.40
1355	CD2	TRP	A	329	5.766	36.704	-4.305	1.00	23.81
1356	CE3	TRP	A	329	5.753	37.453	-3.105	1.00	25.65
1357	CZ3	TRP	A	329	6.926	38.038	-2.671	1.00	25.47
1358	CH2	TRP	A	329	8.134	37.876	-3.376	1.00	22.24
1359	CZ2	TRP	A	329	8.181	37.137	-4.555	1.00	26.13
1360	C	TRP	A	329	1.757	35.186	-2.850	1.00	22.79
1361	O	TRP	A	329	1.166	36.072	-2.233	1.00	23.14
1362	N	TRP	A	330	1.186	34.026	-3.148	1.00	23.88
1363	CA	TRP	A	330	-0.126	33.723	-2.609	1.00	23.28
1364	CB	TRP	A	330	-0.574	32.311	-3.061	1.00	24.71
1365	CG	TRP	A	330	-1.820	31.892	-2.453	1.00	23.64
1366	CD1	TRP	A	330	-1.978	31.346	-1.234	1.00	24.48
1367	NE1	TRP	A	330	-3.311	31.116	-0.995	1.00	25.02

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1368	CE2	TRP	A	330	-4.025	31.550	-2.081	1.00	25.12
1369	CD2	TRP	A	330	-3.104	32.056	-3.006	1.00	23.08
1370	CE3	TRP	A	330	-3.578	32.583	-4.208	1.00	22.67
1371	CZ3	TRP	A	330	-4.924	32.548	-4.461	1.00	24.37
1372	CH2	TRP	A	330	-5.822	32.079	-3.499	1.00	26.35
1373	CZ2	TRP	A	330	-5.392	31.570	-2.304	1.00	23.96
1374	C	TRP	A	330	-0.101	33.851	-1.094	1.00	22.00
1375	O	TRP	A	330	-0.919	34.555	-0.487	1.00	22.73
1376	N	GLY	A	331	0.859	33.209	-0.475	1.00	20.39
1377	CA	GLY	A	331	1.008	33.300	0.965	1.00	20.55
1378	C	GLY	A	331	1.145	34.720	1.457	1.00	21.75
1379	O	GLY	A	331	0.587	35.115	2.497	1.00	19.73
1380	N	LEU	A	332	1.873	35.557	0.700	1.00	22.84
1381	CA	LEU	A	332	1.961	36.961	1.110	1.00	22.28
1382	CB	LEU	A	332	2.944	37.709	0.246	1.00	21.27
1383	CG	LEU	A	332	3.139	39.172	0.577	1.00	18.71
1384	CD1	LEU	A	332	3.820	39.384	1.877	1.00	20.46
1385	CD2	LEU	A	332	3.933	39.814	-0.506	1.00	21.41
1386	C	LEU	A	332	0.582	37.648	1.027	1.00	22.30
1387	O	LEU	A	332	0.243	38.522	1.858	1.00	22.37
1388	N	GLY	A	333	-0.171	37.339	-0.008	1.00	22.00
1389	CA	GLY	A	333	-1.540	37.853	-0.142	1.00	22.63
1390	C	GLY	A	333	-2.397	37.495	1.034	1.00	22.97
1391	O	GLY	A	333	-3.055	38.362	1.594	1.00	25.37
1392	N	VAL	A	334	-2.374	36.241	1.452	1.00	22.24
1393	CA	VAL	A	334	-3.198	35.770	2.569	1.00	22.96
1394	CB	VAL	A	334	-3.078	34.214	2.780	1.00	22.80
1395	CG1	VAL	A	334	-3.894	33.753	3.950	1.00	24.31
1396	CG2	VAL	A	334	-3.531	33.480	1.532	1.00	23.21
1397	C	VAL	A	334	-2.845	36.557	3.810	1.00	23.75
1398	O	VAL	A	334	-3.697	37.208	4.393	1.00	22.73
1399	N	VAL	A	335	-1.563	36.584	4.124	1.00	23.34
1400	CA	VAL	A	335	-1.022	37.339	5.261	1.00	24.30
1401	CB	VAL	A	335	0.491	37.103	5.295	1.00	24.14
1402	CG1	VAL	A	335	1.158	37.998	6.199	1.00	28.41
1403	CG2	VAL	A	335	0.770	35.592	5.663	1.00	28.79
1404	C	VAL	A	335	-1.364	38.867	5.279	1.00	23.24
1405	O	VAL	A	335	-1.819	39.406	6.303	1.00	20.67
1406	N	MET	A	336	-1.140	39.540	4.153	1.00	22.60
1407	CA	MET	A	336	-1.316	40.929	4.077	1.00	22.94
1408	CB	MET	A	336	-0.588	41.544	2.891	1.00	22.31
1409	CG	MET	A	336	0.905	41.607	3.027	1.00	23.13
1410	SD	MET	A	336	1.654	42.409	1.587	1.00	22.32
1411	CE	MET	A	336	1.197	44.017	1.980	1.00	19.44
1412	C	MET	A	336	-2.819	41.208	4.072	1.00	23.48
1413	O	MET	A	336	-3.266	42.194	4.658	1.00	23.66
1414	N	TYR	A	337	-3.611	40.297	3.512	1.00	24.56
1415	CA	TYR	A	337	-5.074	40.391	3.586	1.00	23.91
1416	CB	TYR	A	337	-5.784	39.292	2.775	1.00	25.20
1417	CG	TYR	A	337	-7.318	39.443	2.688	1.00	24.69
1418	CD1	TYR	A	337	-8.117	39.063	3.751	1.00	26.76

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1419	CE1	TYR	A	337	-9.494	39.221	3.710	1.00	26.34
1420	CZ	TYR	A	337	-10.078	39.736	2.596	1.00	24.96
1421	OH	TYR	A	337	-11.410	39.827	2.601	1.00	29.80
1422	CE2	TYR	A	337	-9.323	40.107	1.491	1.00	24.81
1423	CD2	TYR	A	337	-7.943	39.935	1.541	1.00	25.85
1424	C	TYR	A	337	-5.508	40.338	5.042	1.00	25.61
1425	O	TYR	A	337	-6.308	41.186	5.495	1.00	24.24
1426	N	GLU	A	338	-5.019	39.342	5.790	1.00	25.95
1427	CA	GLU	A	338	-5.406	39.214	7.190	1.00	25.99
1428	CB	GLU	A	338	-4.705	38.034	7.823	1.00	27.58
1429	CG	GLU	A	338	-5.323	36.701	7.613	1.00	30.62
1430	CD	GLU	A	338	-4.532	35.692	8.422	1.00	33.37
1431	OE1	GLU	A	338	-3.446	35.266	7.928	1.00	31.77
1432	OE2	GLU	A	338	-4.982	35.432	9.550	1.00	33.89
1433	C	GLU	A	338	-4.990	40.424	8.007	1.00	26.17
1434	O	GLU	A	338	-5.680	40.819	8.933	1.00	26.29
1435	N	MET	A	339	-3.818	40.965	7.704	1.00	24.35
1436	CA	MET	A	339	-3.334	42.121	8.403	1.00	24.65
1437	CB	MET	A	339	-1.916	42.438	7.956	1.00	23.26
1438	CG	MET	A	339	-0.902	41.399	8.525	1.00	24.80
1439	SD	MET	A	339	0.685	41.928	8.138	1.00	25.21
1440	CE	MET	A	339	1.620	40.615	8.637	1.00	29.40
1441	C	MET	A	339	-4.241	43.333	8.188	1.00	25.08
1442	O	MET	A	339	-4.526	44.036	9.128	1.00	23.75
1443	N	MET	A	340	-4.646	43.574	6.944	1.00	25.38
1444	CA	MET	A	340	-5.375	44.795	6.579	1.00	26.68
1445	CB	MET	A	340	-5.178	45.147	5.116	1.00	26.67
1446	CG	MET	A	340	-3.989	46.011	4.917	1.00	29.24
1447	SD	MET	A	340	-3.789	46.585	3.271	1.00	30.93
1448	CE	MET	A	340	-2.757	45.387	2.505	1.00	30.32
1449	C	MET	A	340	-6.836	44.648	6.803	1.00	27.77
1450	O	MET	A	340	-7.481	45.636	7.123	1.00	28.64
1451	N	CYS	A	341	-7.366	43.433	6.623	1.00	26.76
1452	CA	CYS	A	341	-8.802	43.191	6.722	1.00	28.33
1453	CB	CYS	A	341	-9.302	42.312	5.572	1.00	27.75
1454	SG	CYS	A	341	-8.791	42.981	4.004	1.00	26.61
1455	C	CYS	A	341	-9.229	42.578	8.059	1.00	29.48
1456	O	CYS	A	341	-10.386	42.643	8.393	1.00	30.18
1457	N	GLY	A	342	-8.298	42.015	8.822	1.00	29.85
1458	CA	GLY	A	342	-8.640	41.447	10.122	1.00	31.16
1459	C	GLY	A	342	-9.238	40.045	10.094	1.00	31.82
1460	O	GLY	A	342	-9.714	39.576	11.113	1.00	33.23
1461	N	ARG	A	343	-9.177	39.370	8.947	1.00	32.19
1462	CA	ARG	A	343	-9.589	37.991	8.829	1.00	32.42
1463	CB	ARG	A	343	-11.113	37.902	8.841	1.00	33.30
1464	CG	BARG	A	343	-11.796	38.764	7.781	0.35	31.89
1465	CG	AARG	A	343	-11.918	38.746	7.832	0.65	34.12
1466	CD	BARG	A	343	-13.148	38.254	7.319	0.35	31.96
1467	CD	AARG	A	343	-13.175	39.441	8.473	0.65	38.32
1468	NE	BARG	A	343	-13.367	38.530	5.900	0.35	32.06
1469	NE	AARG	A	343	-14.435	39.175	7.764	0.65	41.31

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1470	CZ	BARG	A	343	-13.352	37.613	4.931	0.35	30.74
1471	CZ	AARG	A	343	-15.581	39.827	7.990	0.65	43.68
1472	NH1	BARG	A	343	-13.162	36.324	5.198	0.35	30.79
1473	NH1	AARG	A	343	-15.654	40.777	8.918	0.65	43.55
1474	NH2	BARG	A	343	-13.558	37.986	3.683	0.35	29.28
1475	NH2	AARG	A	343	-16.668	39.522	7.282	0.65	45.91
1476	C	ARG	A	343	-9.017	37.387	7.544	1.00	32.29
1477	O	ARG	A	343	-8.493	38.119	6.692	1.00	30.58
1478	N	LEU	A	344	-9.125	36.059	7.426	1.00	31.72
1479	CA	LEU	A	344	-8.673	35.306	6.248	1.00	31.52
1480	CB	LEU	A	344	-8.756	33.824	6.512	1.00	32.22
1481	CG	LEU	A	344	-7.720	33.229	7.468	1.00	34.87
1482	CD1	LEU	A	344	-8.081	31.746	7.818	1.00	34.89
1483	CD2	LEU	A	344	-6.327	33.325	6.910	1.00	35.79
1484	C	LEU	A	344	-9.435	35.663	4.972	1.00	30.86
1485	O	LEU	A	344	-10.575	36.033	5.022	1.00	32.28
1486	N	PRO	A	345	-8.807	35.617	3.818	1.00	30.36
1487	CA	PRO	A	345	-9.527	35.895	2.573	1.00	30.74
1488	CB	PRO	A	345	-8.419	35.893	1.523	1.00	30.06
1489	CG	PRO	A	345	-7.310	35.200	2.094	1.00	29.24
1490	CD	PRO	A	345	-7.383	35.352	3.575	1.00	30.15
1491	C	PRO	A	345	-10.562	34.809	2.242	1.00	32.98
1492	O	PRO	A	345	-11.610	35.115	1.660	1.00	32.85
1493	N	PHE	A	346	-10.230	33.583	2.620	1.00	35.46
1494	CA	PHE	A	346	-11.077	32.390	2.438	1.00	38.20
1495	CB	PHE	A	346	-10.497	31.485	1.354	1.00	37.35
1496	CG	PHE	A	346	-10.101	32.208	0.107	1.00	37.66
1497	CD1	PHE	A	346	-11.061	32.593	-0.803	1.00	36.30
1498	CE1	PHE	A	346	-10.715	33.264	-1.946	1.00	38.99
1499	CZ	PHE	A	346	-9.367	33.517	-2.219	1.00	39.01
1500	CE2	PHE	A	346	-8.395	33.118	-1.319	1.00	38.76
1501	CD2	PHE	A	346	-8.768	32.461	-0.166	1.00	38.36
1502	C	PHE	A	346	-11.143	31.581	3.733	1.00	40.04
1503	O	PHE	A	346	-10.099	31.219	4.306	1.00	40.31
1504	N	TYR	A	347	-12.356	31.276	4.178	1.00	43.19
1505	CA	TYR	A	347	-12.530	30.459	5.373	1.00	46.44
1506	CB	TYR	A	347	-12.390	31.304	6.641	1.00	46.95
1507	CG	TYR	A	347	-12.550	30.513	7.933	1.00	51.35
1508	CD1	TYR	A	347	-11.435	30.003	8.609	1.00	54.27
1509	CE1	TYR	A	347	-11.584	29.281	9.805	1.00	56.96
1510	CZ	TYR	A	347	-12.868	29.049	10.321	1.00	58.71
1511	OH	TYR	A	347	-13.031	28.340	11.495	1.00	58.93
1512	CE2	TYR	A	347	-13.992	29.536	9.657	1.00	56.50
1513	CD2	TYR	A	347	-13.828	30.262	8.476	1.00	54.99
1514	C	TYR	A	347	-13.868	29.725	5.390	1.00	47.74
1515	O	TYR	A	347	-14.894	30.251	4.937	1.00	47.69
1516	N	ASN	A	348	-13.802	28.511	5.937	1.00	49.82
1517	CA	ASN	A	348	-14.943	27.609	6.219	1.00	51.57
1518	CB	ASN	A	348	-15.481	26.958	4.940	1.00	51.43
1519	CG	ASN	A	348	-16.901	26.404	5.095	1.00	51.76
1520	OD1	ASN	A	348	-17.821	26.851	4.413	1.00	53.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1521	ND2	ASN	A	348	-17.070	25.412	5.950	1.00	48.30
1522	C	ASN	A	348	-14.377	26.523	7.122	1.00	53.12
1523	O	ASN	A	348	-13.306	25.986	6.828	1.00	53.73
1524	N	GLN	A	349	-15.049	26.184	8.218	1.00	55.05
1525	CA	GLN	A	349	-14.524	25.095	9.073	1.00	56.50
1526	CB	GLN	A	349	-15.216	25.037	10.444	1.00	56.99
1527	CG	GLN	A	349	-16.774	24.949	10.443	1.00	58.42
1528	CD	GLN	A	349	-17.381	25.273	11.810	1.00	60.33
1529	OE1	GLN	A	349	-18.475	24.806	12.137	1.00	61.94
1530	NE2	GLN	A	349	-16.672	26.075	12.603	1.00	60.33
1531	C	GLN	A	349	-14.534	23.720	8.361	1.00	56.96
1532	O	GLN	A	349	-13.763	22.833	8.716	1.00	57.76
1533	N	ASP	A	350	-15.392	23.557	7.358	1.00	57.16
1534	CA	ASP	A	350	-15.355	22.380	6.485	1.00	57.67
1535	CB	ASP	A	350	-16.676	22.234	5.678	1.00	57.53
1536	CG	ASP	A	350	-16.690	21.001	4.757	1.00	58.82
1537	OD1	ASP	A	350	-17.783	20.647	4.232	1.00	60.24
1538	OD2	ASP	A	350	-15.674	20.319	4.498	1.00	59.08
1539	C	ASP	A	350	-14.151	22.512	5.548	1.00	57.26
1540	O	ASP	A	350	-14.223	23.231	4.553	1.00	57.25
1541	N	HIS	A	351	-13.082	21.769	5.846	1.00	57.04
1542	CA	HIS	A	351	-11.830	21.844	5.083	1.00	57.18
1543	CB	HIS	A	351	-10.602	21.131	5.793	1.00	57.57
1544	CG	HIS	A	351	-10.937	19.916	6.640	1.00	60.46
1545	ND1	HIS	A	351	-11.577	19.993	7.864	1.00	62.18
1546	CE1	HIS	A	351	-11.714	18.781	8.375	1.00	61.83
1547	NE2	HIS	A	351	-11.159	17.915	7.544	1.00	62.57
1548	CD2	HIS	A	351	-10.661	18.599	6.455	1.00	62.43
1549	C	HIS	A	351	-11.956	21.566	3.543	1.00	56.47
1550	O	HIS	A	351	-11.018	21.848	2.797	1.00	57.57
1551	N	GLU	A	352	-13.120	21.099	3.070	1.00	55.23
1552	CA	GLU	A	352	-13.424	20.839	1.631	1.00	54.01
1553	CB	GLU	A	352	-14.314	19.540	1.488	1.00	54.46
1554	CG	GLU	A	352	-14.939	19.234	0.094	1.00	53.70
1555	CD	GLU	A	352	-16.051	18.145	0.106	1.00	54.70
1556	OE1	GLU	A	352	-16.220	17.450	1.134	1.00	51.20
1557	OE2	GLU	A	352	-16.779	17.980	-0.912	1.00	52.08
1558	C	GLU	A	352	-14.145	22.006	0.918	1.00	52.81
1559	O	GLU	A	352	-13.940	22.259	-0.283	1.00	52.24
1560	N	LYS	A	353	-15.059	22.646	1.634	1.00	51.63
1561	CA	LYS	A	353	-15.653	23.894	1.176	1.00	51.24
1562	CB	LYS	A	353	-16.889	24.254	2.001	1.00	51.57
1563	CG	LYS	A	353	-18.079	24.726	1.149	1.00	54.06
1564	CD	LYS	A	353	-17.726	25.935	0.258	1.00	56.42
1565	CE	LYS	A	353	-18.898	26.363	-0.642	1.00	58.10
1566	NZ	LYS	A	353	-18.392	27.159	-1.796	1.00	59.27
1567	C	LYS	A	353	-14.603	25.037	1.263	1.00	49.82
1568	O	LYS	A	353	-14.643	25.971	0.494	1.00	49.33
1569	N	LEU	A	354	-13.658	24.942	2.189	1.00	48.47
1570	CA	LEU	A	354	-12.571	25.929	2.266	1.00	47.90
1571	CB	LEU	A	354	-11.676	25.582	3.453	1.00	47.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1572	CG	LEU	A	354	-10.588	26.524	3.993	1.00	48.61
1573	CD1	LEU	A	354	-9.281	25.733	4.128	1.00	47.67
1574	CD2	LEU	A	354	-10.401	27.842	3.170	1.00	48.29
1575	C	LEU	A	354	-11.788	25.901	0.940	1.00	47.07
1576	O	LEU	A	354	-11.523	26.945	0.337	1.00	45.95
1577	N	PHE	A	355	-11.458	24.677	0.502	1.00	46.25
1578	CA	PHE	A	355	-10.731	24.411	-0.752	1.00	45.83
1579	CB	PHE	A	355	-10.441	22.889	-0.878	1.00	45.99
1580	CG	PHE	A	355	-9.337	22.350	0.060	1.00	46.34
1581	CD1	PHE	A	355	-8.981	20.998	0.001	1.00	46.58
1582	CE1	PHE	A	355	-7.983	20.464	0.827	1.00	46.76
1583	CZ	PHE	A	355	-7.310	21.279	1.731	1.00	46.27
1584	CE2	PHE	A	355	-7.656	22.646	1.807	1.00	49.79
1585	CD2	PHE	A	355	-8.658	23.170	0.974	1.00	48.18
1586	C	PHE	A	355	-11.505	24.929	-1.981	1.00	45.11
1587	O	PHE	A	355	-10.941	25.475	-2.929	1.00	45.61
1588	N	GLU	A	356	-12.813	24.760	-1.931	1.00	44.31
1589	CA	GLU	A	356	-13.728	25.279	-2.928	1.00	43.85
1590	CB	GLU	A	356	-15.142	24.825	-2.536	1.00	44.25
1591	CG	GLU	A	356	-15.931	24.245	-3.685	1.00	47.46
1592	CD	GLU	A	356	-16.045	25.231	-4.812	1.00	52.15
1593	OE1	GLU	A	356	-15.818	24.831	-6.003	1.00	58.19
1594	OE2	GLU	A	356	-16.357	26.412	-4.493	1.00	54.62
1595	C	GLU	A	356	-13.666	26.813	-3.074	1.00	41.76
1596	O	GLU	A	356	-13.572	27.364	-4.172	1.00	41.42
1597	N	LEU	A	357	-13.736	27.491	-1.942	1.00	40.21
1598	CA	LEU	A	357	-13.562	28.931	-1.871	1.00	39.14
1599	CB	LEU	A	357	-13.674	29.390	-0.409	1.00	39.64
1600	CG	LEU	A	357	-15.078	29.129	0.158	1.00	40.65
1601	CD1	LEU	A	357	-15.085	29.180	1.652	1.00	41.24
1602	CD2	LEU	A	357	-16.096	30.146	-0.403	1.00	42.36
1603	C	LEU	A	357	-12.231	29.345	-2.478	1.00	37.30
1604	O	LEU	A	357	-12.184	30.186	-3.380	1.00	36.31
1605	N	ILE	A	358	-11.154	28.703	-2.039	1.00	36.05
1606	CA	ILE	A	358	-9.802	29.019	-2.538	1.00	34.95
1607	CB	ILE	A	358	-8.748	28.184	-1.821	1.00	34.12
1608	CG1	ILE	A	358	-8.586	28.727	-0.396	1.00	32.56
1609	CD1	ILE	A	358	-7.721	27.866	0.552	1.00	30.07
1610	CG2	ILE	A	358	-7.408	28.163	-2.597	1.00	34.33
1611	C	ILE	A	358	-9.661	28.886	-4.030	1.00	36.03
1612	O	ILE	A	358	-8.982	29.682	-4.639	1.00	34.12
1613	N	LEU	A	359	-10.340	27.895	-4.609	1.00	39.61
1614	CA	LEU	A	359	-10.230	27.561	-6.039	1.00	42.39
1615	CB	LEU	A	359	-10.584	26.078	-6.267	1.00	42.51
1616	CG	LEU	A	359	-9.559	24.926	-6.393	1.00	42.89
1617	CD1	LEU	A	359	-8.125	25.343	-6.504	1.00	40.95
1618	CD2	LEU	A	359	-9.744	23.885	-5.279	1.00	43.25
1619	C	LEU	A	359	-11.167	28.388	-6.922	1.00	44.42
1620	O	LEU	A	359	-10.829	28.731	-8.062	1.00	45.88
1621	N	MET	A	360	-12.325	28.739	-6.385	1.00	46.72
1622	CA	MET	A	360	-13.412	29.267	-7.195	1.00	48.17

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1623	CB	MET	A	360	-14.632	28.326	-7.096	1.00	49.41
1624	CG	MET	A	360	-14.680	27.176	-8.163	1.00	51.69
1625	SD	MET	A	360	-16.351	26.962	-8.928	1.00	58.43
1626	CE	MET	A	360	-16.575	28.648	-9.824	1.00	58.74
1627	C	MET	A	360	-13.832	30.694	-6.858	1.00	48.64
1628	O	MET	A	360	-14.245	31.419	-7.752	1.00	49.12
1629	N	GLU	A	361	-13.736	31.118	-5.601	1.00	48.75
1630	CA	GLU	A	361	-14.347	32.388	-5.213	1.00	48.79
1631	CB	GLU	A	361	-14.940	32.303	-3.815	1.00	49.83
1632	CG	GLU	A	361	-16.214	31.452	-3.762	1.00	51.95
1633	CD	GLU	A	361	-17.436	32.131	-4.350	1.00	54.93
1634	OE1	GLU	A	361	-17.693	32.002	-5.580	1.00	57.03
1635	OE2	GLU	A	361	-18.164	32.775	-3.564	1.00	59.24
1636	C	GLU	A	361	-13.453	33.611	-5.299	1.00	47.92
1637	O	GLU	A	361	-12.281	33.567	-4.963	1.00	47.00
1638	N	ASP	A	362	-14.039	34.711	-5.758	1.00	47.18
1639	CA	ASP	A	362	-13.372	35.996	-5.698	1.00	47.80
1640	CB	ASP	A	362	-14.005	37.025	-6.638	1.00	48.22
1641	CG	ASP	A	362	-14.097	36.515	-8.087	1.00	52.62
1642	OD1	ASP	A	362	-13.118	35.858	-8.589	1.00	56.11
1643	OD2	ASP	A	362	-15.131	36.716	-8.787	1.00	55.51
1644	C	ASP	A	362	-13.339	36.496	-4.255	1.00	45.91
1645	O	ASP	A	362	-14.067	36.021	-3.392	1.00	45.58
1646	N	ILE	A	363	-12.451	37.446	-4.032	1.00	44.24
1647	CA	ILE	A	363	-12.148	37.960	-2:721	1.00	43.22
1648	CB	ILE	A	363	-10.593	38.204	-2.679	1.00	43.27
1649	CG1	ILE	A	363	-10.030	37.593	-1.436	1.00	44.24
1650	CD1	ILE	A	363	-9.764	36.230	-1.697	1.00	44.91
1651	CG2	ILE	A	363	-10.168	39.612	-2.773	1.00	43.09
1652	C	ILE	A	363	-12.947	39.238	-2.448	1.00	42.21
1653	O	ILE	A	363	-13.185	39.999	-3.360	1.00	41.03
1654	N	LYS	A	364	-13.288	39.482	-1.186	1.00	41.18
1655	CA	LYS	A	364	-14.006	40.670	-0.783	1.00	40.95
1656	CB	LYS	A	364	-15.184	40.277	0.113	1.00	42.05
1657	CG	LYS	A	364	-16.183	39.328	-0.554	1.00	45.36
1658	CD	LYS	A	364	-17.033	40.063	-1.583	1.00	48.93
1659	CE	LYS	A	364	-16.894	39.503	-3.020	1.00	52.44
1660	NZ	LYS	A	364	-17.249	40.555	-4.069	1.00	53.14
1661	C	LYS	A	364	-13.085	41.588	0.002	1.00	39.51
1662	O	LYS	A	364	-12.164	41.113	0.682	1.00	39.63
1663	N	PHE	A	365	-13.365	42.888	-0.051	1.00	37.00
1664	CA	PHE	A	365	-12.588	43.868	0.680	1.00	35.91
1665	CB	PHE	A	365	-11.854	44.809	-0.272	1.00	34.55
1666	CG	PHE	A	365	-10.890	44.124	-1.131	1.00	30.42
1667	CD1	PHE	A	365	-9.877	43.383	-0.576	1.00	27.71
1668	CE1	PHE	A	365	-8.967	42.682	-1.391	1.00	29.34
1669	CZ	PHE	A	365	-9.110	42.742	-2.764	1.00	29.57
1670	CE2	PHE	A	365	-10.158	43.478	-3.319	1.00	29.35
1671	CD2	PHE	A	365	-11.056	44.123	-2.517	1.00	30.70
1672	C	PHE	A	365	-13.351	44.752	1.603	1.00	36.02
1673	O	PHE	A	365	-14.424	45.198	1.310	1.00	36.91

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1674	N	PRO	A	366	-12.710	45.130	2.673	1.00	36.16
1675	CA	PRO	A	366	-13.226	46.250	3.428	1.00	37.46
1676	CB	PRO	A	366	-12.126	46.549	4.460	1.00	36.81
1677	CG	PRO	A	366	-11.486	45.218	4.644	1.00	36.81
1678	CD	PRO	A	366	-11.465	44.602	3.232	1.00	36.07
1679	C	PRO	A	366	-13.475	47.450	2.500	1.00	38.55
1680	O	PRO	A	366	-12.977	47.640	1.366	1.00	39.00
1681	N	ARG	A	367	-14.241	48.308	3.116	1.00	39.26
1682	CA	ARG	A	367	-15.023	49.326	2.505	1.00	40.33
1683	CB	ARG	A	367	-16.019	49.782	3.606	1.00	41.38
1684	CG	ARG	A	367	-15.509	49.548	5.114	1.00	45.68
1685	CD	ARG	A	367	-15.283	48.047	5.655	1.00	50.12
1686	NE	ARG	A	367	-16.462	47.215	5.922	1.00	53.34
1687	CZ	ARG	A	367	-17.154	46.483	5.026	1.00	57.31
1688	NH1	ARG	A	367	-18.200	45.776	5.450	1.00	59.86
1689	NH2	ARG	A	367	-16.863	46.469	3.724	1.00	56.70
1690	C	ARG	A	367	-14.055	50.435	2.065	1.00	37.75
1691	O	ARG	A	367	-13.906	50.704	0.879	1.00	40.28
1692	N	THR	A	368	-13.305	50.967	3.014	1.00	35.18
1693	CA	THR	A	368	-12.385	52.061	2.738	1.00	33.03
1694	CB	THR	A	368	-12.404	53.047	3.891	1.00	33.16
1695	OG1	THR	A	368	-11.896	52.366	5.026	1.00	36.38
1696	CG2	THR	A	368	-13.834	53.474	4.261	1.00	29.83
1697	C	THR	A	368	-10.957	51.613	2.489	1.00	30.70
1698	O	THR	A	368	-10.015	52.441	2.579	1.00	30.15
1699	N	LEU	A	369	-10.765	50.333	2.155	1.00	28.12
1700	CA	LEU	A	369	-9.416	49.868	1.812	1.00	27.00
1701	CB	LEU	A	369	-9.397	48.377	1.524	1.00	26.90
1702	CG	LEU	A	369	-8.042	47.752	1.745	1.00	30.37
1703	CD1	LEU	A	369	-7.693	47.822	3.210	1.00	29.49
1704	CD2	LEU	A	369	-7.933	46.309	1.153	1.00	30.63
1705	C	LEU	A	369	-8.947	50.616	0.574	1.00	25.48
1706	O	LEU	A	369	-9.711	50.832	-0.361	1.00	24.10
1707	N	SER	A	370	-7.687	51.017	0.545	1.00	24.38
1708	CA	SER	A	370	-7.208	51.804	-0.583	1.00	22.17
1709	CB	SER	A	370	-5.799	52.371	-0.325	1.00	22.58
1710	OG	SER	A	370	-4.822	51.380	-0.381	1.00	20.99
1711	C	SER	A	370	-7.258	51.030	-1.872	1.00	22.21
1712	O	SER	A	370	-7.169	49.793	-1.916	1.00	20.67
1713	N	SER	A	371	-7.411	51.777	-2.959	1.00	22.30
1714	CA	SER	A	371	-7.315	51.188	-4.282	1.00	22.80
1715	CB	SER	A	371	-7.461	52.278	-5.347	1.00	22.40
1716	OG	SER	A	371	-7.342	51.692	-6.600	1.00	25.38
1717	C	SER	A	371	-6.047	50.388	-4.517	1.00	22.20
1718	O	SER	A	371	-6.068	49.347	-5.129	1.00	21.30
1719	N	ASP	A	372	-4.915	50.938	-4.121	1.00	23.02
1720	CA	ASP	A	372	-3.644	50.245	-4.293	1.00	23.39
1721	CB	ASP	A	372	-2.476	51.120	-3.816	1.00	22.52
1722	CG	ASP	A	372	-2.114	52.198	-4.806	1.00	24.79
1723	OD1	ASP	A	372	-1.344	53.107	-4.459	1.00	22.99
1724	OD2	ASP	A	372	-2.582	52.236	-5.963	1.00	28.01

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1725	C	ASP	A	372	-3.587	48.950	-3.491	1.00	22.58
1726	O	ASP	A	372	-2.969	48.022	-3.901	1.00	21.66
1727	N	ALA	A	373	-4.129	48.955	-2.283	1.00	21.68
1728	CA	ALA	A	373	-4.153	47.779	-1.456	1.00	22.27
1729	CB	ALA	A	373	-4.609	48.147	-0.021	1.00	22.26
1730	C	ALA	A	373	-5.037	46.686	-2.067	1.00	23.08
1731	O	ALA	A	373	-4.670	45.524	-2.069	1.00	22.70
1732	N	LYS	A	374	-6.175	47.060	-2.634	1.00	22.62
1733	CA	LYS	A	374	-7.073	46.075	-3.196	1.00	23.42
1734	CB	LYS	A	374	-8.424	46.684	-3.607	1.00	23.83
1735	CG	LYS	A	374	-9.309	47.132	-2.479	1.00	25.80
1736	CD	LYS	A	374	-10.572	47.821	-3.049	1.00	27.80
1737	CE	LYS	A	374	-11.473	48.281	-1.905	1.00	31.69
1738	NZ	LYS	A	374	-12.476	49.294	-2.384	1.00	30.22
1739	C	LYS	A	374	-6.427	45.501	-4.466	1.00	23.08
1740	O	LYS	A	374	-6.561	44.340	-4.733	1.00	22.25
1741	N	SER	A	375	-5.771	46.355	-5.258	1.00	22.20
1742	CA	SER	A	375	-4.981	45.913	-6.397	1.00	21.43
1743	CB	SER	A	375	-4.334	47.136	-7.024	1.00	21.77
1744	OG	SER	A	375	-3.615	46.753	-8.161	1.00	22.52
1745	C	SER	A	375	-3.876	44.922	-5.969	1.00	22.71
1746	O	SER	A	375	-3.722	43.816	-6.526	1.00	21.85
1747	N	LEU	A	376	-3.068	45.324	-4.984	1.00	21.22
1748	CA	LEU	A	376	-2.029	44.431	-4.482	1.00	20.80
1749	CB	LEU	A	376	-1.322	45.044	-3.248	1.00	20.99
1750	CG	LEU	A	376	-0.202	44.166	-2.705	1.00	20.69
1751	CD1	LEU	A	376	0.955	44.266	-3.629	1.00	23.78
1752	CD2	LEU	A	376	0.119	44.618	-1.351	1.00	24.66
1753	C	LEU	A	376	-2.598	43.065	-4.064	1.00	21.97
1754	O	LEU	A	376	-2.126	42.081	-4.462	1.00	19.49
1755	N	LEU	A	377	-3.587	43.043	-3.184	1.00	22.81
1756	CA	LEU	A	377	-4.137	41.800	-2.658	1.00	23.06
1757	CB	LEU	A	377	-5.091	42.090	-1.521	1.00	22.89
1758	CG	LEU	A	377	-4.452	42.763	-0.306	1.00	19.08
1759	CD1	LEU	A	377	-5.535	43.114	0.670	1.00	20.77
1760	CD2	LEU	A	377	-3.453	41.839	0.367	1.00	19.05
1761	C	LEU	A	377	-4.824	40.953	-3.726	1.00	24.65
1762	O	LEU	A	377	-4.638	39.772	-3.795	1.00	25.34
1763	N	SER	A	378	-5.536	41.596	-4.612	1.00	25.56
1764	CA	SER	A	378	-6.118	40.961	-5.767	1.00	25.91
1765	CB	SER	A	378	-6.922	42.000	-6.590	1.00	26.65
1766	OG	SER	A	378	-8.064	42.409	-5.862	1.00	28.99
1767	C	SER	A	378	-5.068	40.334	-6.653	1.00	23.59
1768	O	SER	A	378	-5.193	39.192	-7.031	1.00	23.67
1769	N	GLY	A	379	-3.978	41.029	-6.872	1.00	23.65
1770	CA	GLY	A	379	-2.888	40.517	-7.709	1.00	22.69
1771	C	GLY	A	379	-2.162	39.329	-7.129	1.00	22.67
1772	O	GLY	A	379	-1.849	38.377	-7.800	1.00	23.04
1773	N	LEU	A	380	-1.859	39.423	-5.855	1.00	21.45
1774	CA	LEU	A	380	-1.238	38.387	-5.100	1.00	20.56
1775	CB	LEU	A	380	-1.021	38.957	-3.702	1.00	21.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1776	CG	LEU	A	380	0.373	39.457	-3.262	1.00	22.83
1777	CD1	LEU	A	380	1.413	39.633	-4.259	1.00	21.55
1778	CD2	LEU	A	380	0.280	40.515	-2.295	1.00	17.21
1779	C	LEU	A	380	-2.185	37.160	-4.972	1.00	21.14
1780	O	LEU	A	380	-1.729	36.022	-4.795	1.00	17.68
1781	N	LEU	A	381	-3.492	37.410	-4.958	1.00	20.72
1782	CA	LEU	A	381	-4.446	36.310	-4.774	1.00	22.48
1783	CB	LEU	A	381	-5.447	36.588	-3.620	1.00	21.24
1784	CG	LEU	A	381	-4.844	36.788	-2.225	1.00	20.38
1785	CD1	LEU	A	381	-5.907	37.276	-1.254	1.00	17.61
1786	CD2	LEU	A	381	-4.206	35.547	-1.667	1.00	23.69
1787	C	LEU	A	381	-5.112	35.890	-6.094	1.00	23.69
1788	O	LEU	A	381	-6.142	35.176	-6.089	1.00	23.96
1789	N	ILE	A	382	-4.512	36.279	-7.227	1.00	25.79
1790	CA	ILE	A	382	-4.885	35.696	-8.520	1.00	25.97
1791	CB	ILE	A	382	-4.092	36.333	-9.643	1.00	26.32
1792	CG1	ILE	A	382	-4.722	37.649	-10.014	1.00	27.81
1793	CD1	ILE	A	382	-3.884	38.550	-10.779	1.00	30.39
1794	CG2	ILE	A	382	-4.096	35.388	-10.922	1.00	26.07
1795	C	ILE	A	382	-4.690	34.181	-8.516	1.00	26.92
1796	O	ILE	A	382	-3.664	33.663	-8.157	1.00	28.50
1797	N	LYS	A	383	-5.669	33.429	-8.958	1.00	29.20
1798	CA	LYS	A	383	-5.655	31.984	-8.753	1.00	29.11
1799	CB	LYS	A	383	-7.078	31.460	-8.992	1.00	32.04
1800	CG	LYS	A	383	-8.143	32.326	-8.264	1.00	33.86
1801	CD	LYS	A	383	-8.969	31.477	-7.402	1.00	35.60
1802	CE	LYS	A	383	-10.044	32.291	-6.720	1.00	36.10
1803	NZ	LYS	A	383	-9.881	32.207	-5.244	1.00	34.32
1804	C	LYS	A	383	-4.620	31.233	-9.598	1.00	28.49
1805	O	LYS	A	383	-3.989	30.266	-9.173	1.00	27.51
1806	N	ASP	A	384	-4.440	31.712	-10.796	1.00	29.41
1807	CA	ASP	A	384	-3.462	31.200	-11.728	1.00	29.33
1808	CB	ASP	A	384	-3.894	31.680	-13.133	1.00	29.51
1809	CG	ASP	A	384	-3.019	31.140	-14.233	1.00	30.60
1810	OD1	ASP	A	384	-2.006	30.474	-13.925	1.00	34.66
1811	OD2	ASP	A	384	-3.248	31.358	-15.425	1.00	35.44
1812	C	ASP	A	384	-2.075	31.758	-11.323	1.00	29.29
1813	O	ASP	A	384	-1.883	32.929	-11.455	1.00	29.71
1814	N	PRO	A	385	-1.120	30.924	-10.884	1.00	29.04
1815	CA	PRO	A	385	0.234	31.375	-10.534	1.00	29.78
1816	CB	PRO	A	385	0.945	30.084	-10.145	1.00	30.14
1817	CG	PRO	A	385	0.155	28.967	-10.913	1.00	29.06
1818	CD	PRO	A	385	-1.256	29.467	-10.735	1.00	29.42
1819	C	PRO	A	385	1.026	32.058	-11.631	1.00	30.30
1820	O	PRO	A	385	1.841	32.936	-11.306	1.00	30.73
1821	N	ASN	A	386	0.762	31.703	-12.881	1.00	31.15
1822	CA	ASN	A	386	1.349	32.371	-14.065	1.00	31.67
1823	CB	ASN	A	386	0.988	31.637	-15.343	1.00	31.33
1824	CG	ASN	A	386	1.570	30.219	-15.402	1.00	34.84
1825	OD1	ASN	A	386	0.879	29.306	-15.819	1.00	44.08
1826	ND2	ASN	A	386	2.836	30.048	-15.016	1.00	32.10

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1827	C	ASN	A	386	0.890	33.814	-14.239	1.00	30.94
1828	O	ASN	A	386	1.598	34.600	-14.809	1.00	30.43
1829	N	LYS	A	387	-0.301	34.139	-13.760	1.00	30.69
1830	CA	LYS	A	387	-0.803	35.512	-13.863	1.00	29.83
1831	CB	LYS	A	387	-2.222	35.495	-14.430	1.00	30.94
1832	CG	LYS	A	387	-2.274	34.773	-15.820	1.00	32.59
1833	CD	LYS	A	387	-3.631	34.909	-16.513	1.00	39.54
1834	CE	LYS	A	387	-3.577	34.278	-17.971	1.00	40.66
1835	NZ	LYS	A	387	-4.900	34.292	-18.593	1.00	43.91
1836	C	LYS	A	387	-0.740	36.293	-12.542	1.00	28.98
1837	O	LYS	A	387	-1.099	37.469	-12.497	1.00	29.61
1838	N	ARG	A	388	-0.308	35.637	-11.483	1.00	27.31
1839	CA	ARG	A	388	-0.260	36.251	-10.153	1.00	27.19
1840	CB	ARG	A	388	0.076	35.220	-9.132	1.00	28.06
1841	CG	ARG	A	388	-0.311	35.508	-7.736	1.00	30.64
1842	CD	ARG	A	388	-1.231	34.409	-7.246	1.00	35.37
1843	NE	ARG	A	388	-0.379	33.393	-6.794	1.00	34.52
1844	CZ	ARG	A	388	-0.552	32.095	-6.897	1.00	28.75
1845	NH1	ARG	A	388	0.403	31.412	-6.387	1.00	22.65
1846	NH2	ARG	A	388	-1.622	31.474	-7.392	1.00	29.50
1847	C	ARG	A	388	0.846	37.235	-10.140	1.00	25.87
1848	O	ARG	A	388	1.885	37.049	-10.756	1.00	24.16
1849	N	LEU	A	389	0.614	38.306	-9.422	1.00	25.00
1850	CA	LEU	A	389	1.650	39.264	-9.142	1.00	23.41
1851	CB	LEU	A	389	0.992	40.329	-8.282	1.00	23.54
1852	CG	LEU	A	389	1.429	41.786	-8.294	1.00	27.87
1853	CD1	LEU	A	389	1.814	42.232	-6.911	1.00	29.84
1854	CD2	LEU	A	389	2.352	42.341	-9.406	1.00	26.92
1855	C	LEU	A	389	2.820	38.550	-8.443	1.00	22.99
1856	O	LEU	A	389	2.618	37.806	-7.491	1.00	23.84
1857	N	GLY	A	390	4.028	38.757	-8.937	1.00	22.57
1858	CA	GLY	A	390	5.171	38.022	-8.479	1.00	24.76
1859	C	GLY	A	390	5.462	36.755	-9.272	1.00	25.49
1860	O	GLY	A	390	6.560	36.252	-9.223	1.00	25.05
1861	N	GLY	A	391	4.494	36.324	-10.062	1.00	25.79
1862	CA	GLY	A	391	4.552	35.071	-10.780	1.00	26.23
1863	C	GLY	A	391	5.373	35.073	-12.060	1.00	26.20
1864	O	GLY	A	391	5.618	34.017	-12.612	1.00	26.40
1865	N	GLY	A	392	5.776	36.244	-12.522	1.00	25.86
1866	CA	GLY	A	392	6.556	36.382	-13.731	1.00	25.32
1867	C	GLY	A	392	8.042	36.281	-13.504	1.00	25.44
1868	O	GLY	A	392	8.539	36.045	-12.384	1.00	25.02
1869	N	PRO	A	393	8.789	36.387	-14.590	1.00	25.41
1870	CA	PRO	A	393	10.225	36.097	-14.513	1.00	26.39
1871	CB	PRO	A	393	10.703	36.201	-15.960	1.00	27.00
1872	CG	PRO	A	393	9.638	37.096	-16.640	1.00	26.70
1873	CD	PRO	A	393	8.339	36.791	-15.932	1.00	25.06
1874	C	PRO	A	393	10.935	37.094	-13.590	1.00	26.47
1875	O	PRO	A	393	12.004	36.778	-13.165	1.00	26.90
1876	N	ASP	A	394	10.332	38.222	-13.225	1.00	25.87
1877	CA	ASP	A	394	10.992	39.181	-12.318	1.00	24.47

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1878	CB	ASP	A	394	10.736	40.648	-12.729	1.00	24.62
1879	CG	ASP	A	394	11.988	41.468	-12.742	1.00	24.07
1880	OD1	ASP	A	394	11.928	42.718	-12.927	1.00	26.04
1881	OD2	ASP	A	394	13.090	40.940	-12.630	1.00	24.86
1882	C	ASP	A	394	10.631	38.969	-10.858	1.00	23.80
1883	O	ASP	A	394	11.187	39.628	-9.965	1.00	22.60
1884	N	ASP	A	395	9.734	38.026	-10.616	1.00	21.96
1885	CA	ASP	A	395	9.475	37.543	-9.271	1.00	22.30
1886	CB	ASP	A	395	10.671	36.700	-8.791	1.00	22.70
1887	CG	ASP	A	395	10.380	35.954	-7.519	1.00	22.50
1888	OD1	ASP	A	395	9.392	35.204	-7.506	1.00	26.26
1889	OD2	ASP	A	395	11.051	36.034	-6.489	1.00	25.40
1890	C	ASP	A	395	9.102	38.729	-8.340	1.00	22.76
1891	O	ASP	A	395	8.213	39.544	-8.654	1.00	22.84
1892	N	ALA	A	396	9.826	38.876	-7.252	1.00	22.47
1893	CA	ALA	A	396	9.578	39.898	-6.261	1.00	22.79
1894	CB	ALA	A	396	10.571	39.801	-5.197	1.00	23.11
1895	C	ALA	A	396	9.587	41.304	-6.798	1.00	22.58
1896	O	ALA	A	396	8.958	42.146	-6.220	1.00	20.87
1897	N	LYS	A	397	10.295	41.564	-7.885	1.00	23.02
1898	CA	LYS	A	397	10.462	42.922	-8.338	1.00	24.03
1899	CB	LYS	A	397	11.461	43.014	-9.479	1.00	25.88
1900	CG	LYS	A	397	12.896	43.233	-9.111	1.00	30.61
1901	CD	LYS	A	397	13.417	42.140	-8.245	1.00	35.25
1902	CE	LYS	A	397	14.934	42.394	-8.034	1.00	40.34
1903	NZ	LYS	A	397	15.504	42.087	-6.656	1.00	45.17
1904	C	LYS	A	397	9.119	43.459	-8.806	1.00	23.48
1905	O	LYS	A	397	8.864	44.669	-8.695	1.00	22.60
1906	N	GLU	A	398	8.260	42.552	-9.281	1.00	21.91
1907	CA	GLU	A	398	6.907	42.881	-9.647	1.00	23.99
1908	CB	GLU	A	398	6.098	41.645	-10.048	1.00	23.58
1909	CG	GLU	A	398	6.289	41.228	-11.456	1.00	27.46
1910	CD	GLU	A	398	5.391	40.033	-11.846	1.00	30.18
1911	OE1	GLU	A	398	5.935	39.043	-12.369	1.00	33.71
1912	OE2	GLU	A	398	4.172	40.102	-11.601	1.00	28.91
1913	C	GLU	A	398	6.178	43.455	-8.488	1.00	23.30
1914	O	GLU	A	398	5.492	44.460	-8.620	1.00	24.99
1915	N	ILE	A	399	6.307	42.793	-7.341	1.00	22.84
1916	CA	ILE	A	399	5.702	43.310	-6.125	1.00	23.19
1917	CB	ILE	A	399	5.646	42.231	-5.004	1.00	22.86
1918	CG1	ILE	A	399	4.583	41.225	-5.427	1.00	23.49
1919	CD1	ILE	A	399	4.976	39.905	-5.538	1.00	25.82
1920	CG2	ILE	A	399	5.245	42.836	-3.687	1.00	22.11
1921	C	ILE	A	399	6.356	44.605	-5.715	1.00	22.04
1922	O	ILE	A	399	5.634	45.548	-5.363	1.00	23.81
1923	N	MET	A	400	7.659	44.726	-5.852	1.00	20.53
1924	CA	MET	A	400	8.325	45.897	-5.353	1.00	21.03
1925	CB	MET	A	400	9.867	45.746	-5.384	1.00	21.58
1926	CG	MET	A	400	10.401	44.690	-4.472	1.00	23.46
1927	SD	MET	A	400	12.106	44.216	-4.838	1.00	29.54
1928	CE	MET	A	400	12.604	43.298	-3.286	1.00	31.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1929	C	MET	A	400	7.994	47.121	-6.145	1.00	21.59
1930	O	MET	A	400	8.085	48.263	-5.616	1.00	22.30
1931	N	ARG	A	401	7.651	46.931	-7.405	1.00	20.30
1932	CA	ARG	A	401	7.253	48.046	-8.231	1.00	21.83
1933	CB	ARG	A	401	7.596	47.746	-9.693	1.00	23.06
1934	CG	ARG	A	401	9.103	47.676	-10.044	1.00	22.65
1935	CD	ARG	A	401	9.294	47.663	-11.547	1.00	22.94
1936	NE	ARG	A	401	8.754	46.442	-12.137	1.00	23.02
1937	CZ	ARG	A	401	9.395	45.325	-12.402	1.00	19.80
1938	NH1	ARG	A	401	10.674	45.161	-12.136	1.00	24.84
1939	NH2	ARG	A	401	8.724	44.335	-12.913	1.00	26.97
1940	C	ARG	A	401	5.749	48.314	-8.185	1.00	22.19
1941	O	ARG	A	401	5.276	49.156	-8.919	1.00	21.78
1942	N	HIS	A	402	4.979	47.512	-7.448	1.00	21.47
1943	CA	HIS	A	402	3.562	47.719	-7.343	1.00	20.51
1944	CB	HIS	A	402	2.852	46.531	-6.652	1.00	20.79
1945	CG	HIS	A	402	1.353	46.605	-6.678	1.00	19.59
1946	ND1	HIS	A	402	0.640	47.421	-5.835	1.00	19.56
1947	CE1	HIS	A	402	-0.651	47.326	-6.114	1.00	21.36
1948	NE2	HIS	A	402	-0.797	46.449	-7.095	1.00	23.41
1949	CD2	HIS	A	402	0.444	46.009	-7.485	1.00	18.75
1950	C	HIS	A	402	3.282	49.054	-6.628	1.00	21.62
1951	O	HIS	A	402	3.979	49.504	-5.729	1.00	18.86
1952	N	SER	A	403	2.215	49.697	-7.082	1.00	22.89
1953	CA	SER	A	403	1.838	51.003	-6.605	1.00	22.72
1954	CB	SER	A	403	0.509	51.392	-7.290	1.00	24.02
1955	OG	SER	A	403	0.265	52.733	-6.951	1.00	28.87
1956	C	SER	A	403	1.656	51.060	-5.102	1.00	22.42
1957	O	SER	A	403	1.924	52.074	-4.479	1.00	23.13
1958	N	PHE	A	404	1.221	49.952	-4.501	1.00	21.81
1959	CA	PHE	A	404	1.080	49.884	-3.071	1.00	22.26
1960	CB	PHE	A	404	0.536	48.530	-2.637	1.00	22.38
1961	CG	PHE	A	404	0.273	48.440	-1.166	1.00	22.06
1962	CD1	PHE	A	404	1.167	47.814	-0.331	1.00	21.86
1963	CE1	PHE	A	404	0.936	47.748	1.028	1.00	21.39
1964	CZ	PHE	A	404	-0.211	48.283	1.574	1.00	19.95
1965	CE2	PHE	A	404	-1.087	48.966	0.751	1.00	20.66
1966	CD2	PHE	A	404	-0.859	49.029	-0.603	1.00	21.93
1967	C	PHE	A	404	2.428	50.161	-2.357	1.00	21.35
1968	O	PHE	A	404	2.433	50.698	-1.243	1.00	21.12
1969	N	PHE	A	405	3.539	49.790	-2.996	1.00	19.75
1970	CA	PHE	A	405	4.860	49.971	-2.392	1.00	19.62
1971	CB	PHE	A	405	5.675	48.706	-2.536	1.00	18.03
1972	CG	PHE	A	405	5.206	47.582	-1.682	1.00	18.03
1973	CD1	PHE	A	405	5.267	47.681	-0.300	1.00	19.80
1974	CE1	PHE	A	405	4.837	46.666	0.512	1.00	18.66
1975	CZ	PHE	A	405	4.341	45.519	-0.031	1.00	15.34
1976	CE2	PHE	A	405	4.234	45.417	-1.397	1.00	17.61
1977	CD2	PHE	A	405	4.653	46.441	-2.230	1.00	16.41
1978	C	PHE	A	405	5.609	51.183	-2.966	1.00	20.75
1979	O	PHE	A	405	6.817	51.283	-2.823	1.00	23.52

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1980	N	SER	A	406	4.915	52.100	-3.627	1.00	22.64
1981	CA	SER	A	406	5.594	53.163	-4.402	1.00	23.48
1982	CB	SER	A	406	4.570	53.889	-5.324	1.00	23.96
1983	OG	SER	A	406	3.695	54.675	-4.509	1.00	23.82
1984	C	SER	A	406	6.397	54.178	-3.556	1.00	21.75
1985	O	SER	A	406	7.174	54.934	-4.068	1.00	23.27
1986	N	GLY	A	407	6.205	54.243	-2.261	1.00	21.80
1987	CA	GLY	A	407	7.026	55.107	-1.439	1.00	21.90
1988	C	GLY	A	407	8.216	54.357	-0.812	1.00	21.96
1989	O	GLY	A	407	8.852	54.896	0.033	1.00	23.84
1990	N	VAL	A	408	8.521	53.148	-1.237	1.00	21.10
1991	CA	VAL	A	408	9.391	52.276	-0.472	1.00	21.32
1992	CB	VAL	A	408	8.799	50.858	-0.315	1.00	22.06
1993	CG1	VAL	A	408	9.803	49.902	0.229	1.00	22.65
1994	CG2	VAL	A	408	7.567	50.852	0.616	1.00	21.48
1995	C	VAL	A	408	10.707	52.175	-1.193	1.00	21.03
1996	O	VAL	A	408	10.775	51.882	-2.393	1.00	20.85
1997	N	ASN	A	409	11.749	52.461	-0.450	1.00	21.24
1998	CA	ASN	A	409	13.118	52.248	-0.900	1.00	20.19
1999	CB	ASN	A	409	14.085	53.406	-0.457	1.00	19.61
2000	CG	ASN	A	409	15.473	53.129	-0.896	1.00	19.94
2001	OD1	ASN	A	409	16.031	52.087	-0.494	1.00	17.58
2002	ND2	ASN	A	409	16.050	54.003	-1.769	1.00	17.83
2003	C	ASN	A	409	13.580	50.891	-0.486	1.00	18.85
2004	O	ASN	A	409	13.685	50.589	0.685	1.00	17.89
2005	N	TRP	A	410	13.833	50.017	-1.471	1.00	20.00
2006	CA	TRP	A	410	13.980	48.585	-1.212	1.00	21.26
2007	CB	TRP	A	410	13.666	47.765	-2.505	1.00	21.93
2008	CG	TRP	A	410	12.206	47.803	-2.723	1.00	20.75
2009	CD1	TRP	A	410	11.511	48.682	-3.496	1.00	23.23
2010	NE1	TRP	A	410	10.161	48.496	-3.331	1.00	22.45
2011	CE2	TRP	A	410	9.946	47.494	-2.439	1.00	19.65
2012	CD2	TRP	A	410	11.227	47.038	-2.015	1.00	18.81
2013	CE3	TRP	A	410	11.294	46.037	-1.052	1.00	17.41
2014	CZ3	TRP	A	410	10.097	45.445	-0.614	1.00	20.70
2015	CH2	TRP	A	410	8.838	45.938	-1.052	1.00	21.14
2016	CZ2	TRP	A	410	8.760	46.950	-1.981	1.00	20.79
2017	C	TRP	A	410	15.307	48.161	-0.588	1.00	20.95
2018	O	TRP	A	410	15.327	47.230	0.166	1.00	19.59
2019	N	GLN	A	411	16.406	48.846	-0.899	1.00	22.22
2020	CA	GLN	A	411	17.674	48.714	-0.147	1.00	22.23
2021	CB	GLN	A	411	18.802	49.597	-0.782	1.00	23.65
2022	CG	GLN	A	411	20.169	49.429	-0.074	1.00	25.69
2023	CD	GLN	A	411	20.643	47.957	-0.120	1.00	30.36
2024	OE1	GLN	A	411	20.610	47.402	-1.152	1.00	28.17
2025	NE2	GLN	A	411	20.909	47.327	1.038	1.00	34.46
2026	C	GLN	A	411	17.493	49.093	1.303	1.00	22.40
2027	O	GLN	A	411	18.027	48.421	2.201	1.00	20.94
2028	N	ASP	A	412	16.733	50.170	1.557	1.00	21.51
2029	CA	ASP	A	412	16.431	50.572	2.926	1.00	21.10
2030	CB	ASP	A	412	15.631	51.829	2.928	1.00	22.05

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2031	CG	ASP	A	412	16.469	53.044	2.783	1.00	19.94
2032	OD1	ASP	A	412	17.737	52.991	2.812	1.00	24.36
2033	OD2	ASP	A	412	15.897	54.107	2.721	1.00	20.95
2034	C	ASP	A	412	15.650	49.544	3.690	1.00	21.78
2035	O	ASP	A	412	15.854	49.373	4.901	1.00	20.06
2036	N	VAL	A	413	14.779	48.818	2.975	1.00	21.64
2037	CA	VAL	A	413	14.027	47.748	3.602	1.00	21.09
2038	CB	VAL	A	413	13.016	47.113	2.628	1.00	19.13
2039	CG1	VAL	A	413	12.553	45.776	3.193	1.00	20.70
2040	CG2	VAL	A	413	11.863	48.056	2.390	1.00	20.59
2041	C	VAL	A	413	15.023	46.689	4.120	1.00	20.22
2042	O	VAL	A	413	15.051	46.352	5.297	1.00	19.97
2043	N	TYR	A	414	15.843	46.205	3.207	1.00	20.15
2044	CA	TYR	A	414	16.903	45.243	3.491	1.00	21.63
2045	CB	TYR	A	414	17.748	44.983	2.226	1.00	22.22
2046	CG	TYR	A	414	18.777	43.884	2.479	1.00	24.78
2047	CD1	TYR	A	414	18.409	42.524	2.406	1.00	24.53
2048	CE1	TYR	A	414	19.328	41.526	2.668	1.00	27.65
2049	CZ	TYR	A	414	20.619	41.858	3.038	1.00	28.09
2050	OH	TYR	A	414	21.498	40.847	3.350	1.00	32.73
2051	CE2	TYR	A	414	21.001	43.195	3.159	1.00	27.24
2052	CD2	TYR	A	414	20.064	44.188	2.899	1.00	27.58
2053	C	TYR	A	414	17.810	45.710	4.660	1.00	22.73
2054	O	TYR	A	414	18.086	44.949	5.588	1.00	22.31
2055	N	ASP	A	415	18.177	46.996	4.660	1.00	22.94
2056	CA	ASP	A	415	19.134	47.551	5.639	1.00	23.16
2057	CB	ASP	A	415	19.807	48.758	5.050	1.00	23.08
2058	CG	ASP	A	415	20.720	48.395	3.895	1.00	25.89
2059	OD1	ASP	A	415	20.929	49.233	2.983	1.00	29.00
2060	OD2	ASP	A	415	21.241	47.286	3.780	1.00	26.31
2061	C	ASP	A	415	18.485	47.896	6.938	1.00	23.66
2062	O	ASP	A	415	19.094	48.467	7.813	1.00	24.22
2063	N	LYS	A	416	17.206	47.570	7.043	1.00	25.07
2064	CA	LYS	A	416	16.420	47.765	8.217	1.00	25.99
2065	CB	LYS	A	416	16.989	46.950	9.397	1.00	26.96
2066	CG	LYS	A	416	16.948	45.483	9.186	1.00	29.79
2067	CD	LYS	A	416	16.738	44.711	10.568	1.00	35.94
2068	CE	LYS	A	416	17.992	44.188	11.167	1.00	39.00
2069	NZ	LYS	A	416	17.970	44.186	12.743	1.00	40.95
2070	C	LYS	A	416	16.338	49.241	8.590	1.00	26.66
2071	O	LYS	A	416	16.466	49.613	9.750	1.00	24.87
2072	N	LYS	A	417	16.073	50.064	7.588	1.00	27.31
2073	CA	LYS	A	417	16.082	51.486	7.754	1.00	28.26
2074	CB	LYS	A	417	17.017	52.097	6.670	1.00	29.63
2075	CG	LYS	A	417	18.539	52.114	7.037	1.00	28.45
2076	CD	LYS	A	417	19.367	52.793	5.951	1.00	30.01
2077	CE	LYS	A	417	20.891	52.512	6.060	1.00	33.67
2078	NZ	LYS	A	417	21.686	53.031	4.835	1.00	33.46
2079	C	LYS	A	417	14.677	52.091	7.690	1.00	28.78
2080	O	LYS	A	417	14.517	53.251	7.978	1.00	30.72
2081	N	LEU	A	418	13.650	51.329	7.323	1.00	29.45

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2082	CA	LEU	A	418	12.285	51.761	7.594	1.00	29.40
2083	CB	LEU	A	418	11.274	50.835	6.914	1.00	30.94
2084	CG	LEU	A	418	10.880	51.211	5.458	1.00	32.69
2085	CD1	LEU	A	418	12.001	51.683	4.712	1.00	34.76
2086	CD2	LEU	A	418	10.268	50.051	4.737	1.00	34.40
2087	C	LEU	A	418	12.047	51.822	9.098	1.00	29.69
2088	O	LEU	A	418	12.482	50.935	9.871	1.00	26.46
2089	N	VAL	A	419	11.333	52.851	9.545	1.00	29.40
2090	CA	VAL	A	419	11.012	52.882	10.961	1.00	30.43
2091	CB	VAL	A	419	10.930	54.349	11.618	1.00	32.72
2092	CG1	VAL	A	419	11.277	55.480	10.663	1.00	33.99
2093	CG2	VAL	A	419	9.648	54.589	12.404	1.00	34.20
2094	C	VAL	A	419	9.808	51.956	11.272	1.00	28.60
2095	O	VAL	A	419	8.743	52.072	10.673	1.00	25.54
2096	N	PRO	A	420	10.006	51.010	12.193	1.00	27.23
2097	CA	PRO	A	420	8.912	50.088	12.520	1.00	27.53
2098	CB	PRO	A	420	9.538	49.127	13.497	1.00	27.62
2099	CG	PRO	A	420	11.075	49.318	13.322	1.00	27.85
2100	CD	PRO	A	420	11.213	50.773	13.015	1.00	26.27
2101	C	PRO	A	420	7.708	50.862	13.123	1.00	27.87
2102	O	PRO	A	420	7.943	51.732	13.925	1.00	27.33
2103	N	PRO	A	421	6.479	50.606	12.668	1.00	28.50
2104	CA	PRO	A	421	5.314	51.391	13.093	1.00	30.22
2105	CB	PRO	A	421	4.249	51.069	12.013	1.00	29.67
2106	CG	PRO	A	421	4.562	49.708	11.676	1.00	31.16
2107	CD	PRO	A	421	6.086	49.577	11.702	1.00	29.18
2108	C	PRO	A	421	4.904	50.908	14.472	1.00	30.35
2109	O	PRO	A	421	4.150	51.578	15.109	1.00	31.07
2110	N	PHE	A	422	5.462	49.814	14.960	1.00	29.87
2111	CA	PHE	A	422	5.173	49.415	16.329	1.00	29.83
2112	CB	PHE	A	422	4.052	48.383	16.317	1.00	30.01
2113	CG	PHE	A	422	3.969	47.548	17.585	1.00	31.16
2114	CD1	PHE	A	422	4.598	46.308	17.654	1.00	32.25
2115	CE1	PHE	A	422	4.520	45.550	18.795	1.00	37.66
2116	CZ	PHE	A	422	3.828	46.026	19.903	1.00	36.57
2117	CE2	PHE	A	422	3.187	47.253	19.848	1.00	37.96
2118	CD2	PHE	A	422	3.255	48.011	18.680	1.00	34.72
2119	C	PHE	A	422	6.412	48.841	16.987	1.00	30.29
2120	O	PHE	A	422	7.038	47.935	16.449	1.00	28.19
2121	N	LYS	A	423	6.740	49.352	18.158	1.00	31.32
2122	CA	LYS	A	423	7.936	48.924	18.850	1.00	33.43
2123	CB	LYS	A	423	8.721	50.117	19.424	1.00	34.50
2124	CG	LYS	A	423	9.831	49.720	20.456	1.00	35.22
2125	CD	LYS	A	423	10.746	48.590	19.971	1.00	36.64
2126	CE	LYS	A	423	11.998	48.516	20.826	1.00	36.51
2127	NZ	LYS	A	423	11.718	47.780	22.051	1.00	38.24
2128	C	LYS	A	423	7.485	48.017	19.973	1.00	34.81
2129	O	LYS	A	423	6.814	48.507	20.895	1.00	33.83
2130	N	PRO	A	424	7.853	46.717	19.921	1.00	35.00
2131	CA	PRO	A	424	7.546	45.798	21.010	1.00	35.97
2132	CB	PRO	A	424	8.339	44.547	20.630	1.00	35.53

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2133	CG	PRO	A	424	8.330	44.548	19.180	1.00	34.10
2134	CD	PRO	A	424	8.579	46.010	18.850	1.00	35.64
2135	C	PRO	A	424	8.026	46.395	22.338	1.00	37.94
2136	O	PRO	A	424	9.167	46.910	22.430	1.00	37.46
2137	N	GLN	A	425	7.157	46.351	23.343	1.00	40.33
2138	CA	GLN	A	425	7.487	46.923	24.661	1.00	42.24
2139	CB	GLN	A	425	6.214	47.384	25.385	1.00	43.16
2140	CG	GLN	A	425	5.936	48.936	25.321	1.00	46.35
2141	CD	GLN	A	425	6.620	49.592	24.144	1.00	48.96
2142	OE1	GLN	A	425	6.304	49.259	23.040	1.00	53.98
2143	NE2	GLN	A	425	7.597	50.469	24.386	1.00	52.45
2144	C	GLN	A	425	8.263	45.878	25.495	1.00	42.95
2145	O	GLN	A	425	7.705	45.293	26.430	1.00	42.55
2146	N	VAL	A	426	9.536	45.669	25.138	1.00	43.39
2147	CA	VAL	A	426	10.438	44.766	25.872	1.00	43.92
2148	CB	VAL	A	426	11.038	43.658	24.970	1.00	43.70
2149	CG1	VAL	A	426	9.985	42.684	24.569	1.00	43.77
2150	CG2	VAL	A	426	11.727	44.219	23.754	1.00	43.47
2151	C	VAL	A	426	11.553	45.546	26.588	1.00	44.64
2152	O	VAL	A	426	12.107	46.500	26.041	1.00	45.88
2153	N	THR	A	427	11.820	45.160	27.836	1.00	44.79
2154	CA	THR	A	427	12.910	45.687	28.672	1.00	44.72
2155	CB	THR	A	427	13.044	44.765	29.945	1.00	45.67
2156	OG1	THR	A	427	11.771	44.572	30.570	1.00	45.88
2157	CG2	THR	A	427	13.978	45.368	31.031	1.00	47.03
2158	C	THR	A	427	14.251	45.580	27.988	1.00	43.87
2159	O	THR	A	427	15.124	46.390	28.206	1.00	43.43
2160	N	SER	A	428	14.432	44.490	27.240	1.00	43.22
2161	CA	SER	A	428	15.750	44.048	26.807	1.00	43.00
2162	CB	SER	A	428	16.549	43.537	28.008	1.00	43.29
2163	OG	SER	A	428	16.176	42.212	28.361	1.00	42.86
2164	C	SER	A	428	15.678	42.908	25.804	1.00	42.85
2165	O	SER	A	428	14.587	42.444	25.442	1.00	42.37
2166	N	GLU	A	429	16.855	42.433	25.405	1.00	42.00
2167	CA	GLU	A	429	16.958	41.395	24.373	1.00	41.86
2168	CB	GLU	A	429	18.392	41.282	23.831	1.00	42.00
2169	CG	GLU	A	429	19.464	41.213	24.911	1.00	44.58
2170	CD	GLU	A	429	20.813	40.763	24.395	1.00	46.71
2171	OE1	GLU	A	429	21.786	40.801	25.166	1.00	50.93
2172	OE2	GLU	A	429	20.918	40.354	23.236	1.00	49.36
2173	C	GLU	A	429	16.494	40.022	24.868	1.00	39.92
2174	O	GLU	A	429	16.091	39.186	24.043	1.00	38.13
2175	N	THR	A	430	16.538	39.803	26.193	1.00	37.87
2176	CA	THR	A	430	16.103	38.532	26.773	1.00	37.09
2177	CB	THR	A	430	17.030	38.020	27.926	1.00	37.40
2178	OG1	THR	A	430	17.222	39.039	28.898	1.00	37.24
2179	CG2	THR	A	430	18.446	37.697	27.412	1.00	36.76
2180	C	THR	A	430	14.684	38.520	27.267	1.00	36.35
2181	O	THR	A	430	14.144	37.430	27.501	1.00	37.32
2182	N	ASP	A	431	14.099	39.701	27.481	1.00	35.32
2183	CA	ASP	A	431	12.751	39.825	28.010	1.00	34.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2184	CB	ASP	A	431	12.249	41.234	27.786	1.00	34.47
2185	CG	ASP	A	431	10.979	41.503	28.525	1.00	36.77
2186	OD1	ASP	A	431	10.662	42.670	28.723	1.00	38.12
2187	OD2	ASP	A	431	10.216	40.612	28.943	1.00	42.23
2188	C	ASP	A	431	11.788	38.854	27.338	1.00	33.21
2189	O	ASP	A	431	11.702	38.800	26.109	1.00	32.19
2190	N	THR	A	432	11.081	38.071	28.130	1.00	31.83
2191	CA	THR	A	432	10.233	37.035	27.604	1.00	31.40
2192	CB	THR	A	432	10.485	35.711	28.367	1.00	31.74
2193	OG1	THR	A	432	10.261	35.890	29.776	1.00	31.99
2194	CG2	THR	A	432	11.939	35.263	28.248	1.00	28.05
2195	C	THR	A	432	8.754	37.401	27.659	1.00	32.43
2196	O	THR	A	432	7.924	36.553	27.418	1.00	32.58
2197	N	ARG	A	433	8.423	38.668	27.935	1.00	33.65
2198	CA	ARG	A	433	7.042	39.050	28.233	1.00	35.22
2199	CB	ARG	A	433	6.911	40.578	28.468	1.00	35.84
2200	CG	ARG	A	433	6.976	41.406	27.245	1.00	41.16
2201	CD	ARG	A	433	7.511	42.814	27.473	1.00	46.88
2202	NE	ARG	A	433	6.739	43.559	28.468	1.00	51.54
2203	CZ	ARG	A	433	7.202	44.040	29.623	1.00	52.25
2204	NH1	ARG	A	433	8.462	43.887	29.985	1.00	51.87
2205	NH2	ARG	A	433	6.371	44.696	30.429	1.00	55.75
2206	C	ARG	A	433	6.018	38.567	27.195	1.00	35.19
2207	O	ARG	A	433	4.938	38.125	27.575	1.00	35.41
2208	N	TYR	A	434	6.360	38.606	25.900	1.00	35.19
2209	CA	TYR	A	434	5.389	38.215	24.863	1.00	34.44
2210	CB	TYR	A	434	5.766	38.779	23.482	1.00	33.67
2211	CG	TYR	A	434	5.509	40.295	23.420	1.00	30.77
2212	CD1	TYR	A	434	6.540	41.182	23.425	1.00	30.05
2213	CE1	TYR	A	434	6.334	42.533	23.400	1.00	31.95
2214	CZ	TYR	A	434	5.038	43.016	23.357	1.00	32.36
2215	OH	TYR	A	434	4.836	44.365	23.290	1.00	36.03
2216	CE2	TYR	A	434	3.977	42.147	23.362	1.00	31.16
2217	CD2	TYR	A	434	4.215	40.799	23.398	1.00	28.00
2218	C	TYR	A	434	5.152	36.734	24.843	1.00	35.43
2219	O	TYR	A	434	4.047	36.297	24.585	1.00	35.51
2220	N	PHE	A	435	6.177	35.953	25.135	1.00	36.65
2221	CA	PHE	A	435	5.974	34.531	25.333	1.00	38.18
2222	CB	PHE	A	435	7.316	33.811	25.490	1.00	37.99
2223	CG	PHE	A	435	8.123	33.825	24.255	1.00	36.69
2224	CD1	PHE	A	435	9.045	34.822	24.032	1.00	36.40
2225	CE1	PHE	A	435	9.821	34.827	22.857	1.00	37.93
2226	CZ	PHE	A	435	9.637	33.861	21.920	1.00	36.67
2227	CE2	PHE	A	435	8.709	32.865	22.123	1.00	38.89
2228	CD2	PHE	A	435	7.939	32.855	23.287	1.00	39.24
2229	C	PHE	A	435	5.084	34.262	26.538	1.00	39.85
2230	O	PHE	A	435	4.315	33.317	26.535	1.00	38.74
2231	N	ASP	A	436	5.199	35.114	27.543	1.00	42.56
2232	CA	ASP	A	436	4.439	34.951	28.785	1.00	45.99
2233	CB	ASP	A	436	5.129	35.712	29.937	1.00	45.36
2234	CG	ASP	A	436	6.556	35.223	30.178	1.00	45.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2235	OD1	ASP	A	436	7.398	35.994	30.728	1.00	43.89
2236	OD2	ASP	A	436	6.916	34.062	29.840	1.00	45.65
2237	C	ASP	A	436	2.996	35.412	28.601	1.00	48.83
2238	O	ASP	A	436	2.131	35.062	29.394	1.00	49.81
2239	N	GLU	A	437	2.772	36.179	27.525	1.00	52.27
2240	CA	GLU	A	437	1.481	36.750	27.087	1.00	54.07
2241	CB	GLU	A	437	0.280	35.870	27.490	1.00	54.43
2242	CG	GLU	A	437	-0.422	35.162	26.323	1.00	56.65
2243	CD	GLU	A	437	0.468	34.221	25.497	1.00	59.11
2244	OE1	GLU	A	437	0.850	34.580	24.353	1.00	59.50
2245	OE2	GLU	A	437	0.757	33.094	25.965	1.00	61.35
2246	C	GLU	A	437	1.411	38.214	27.593	1.00	55.25
2247	O	GLU	A	437	1.593	38.464	28.772	1.00	55.79
2248	N	ALA	A	438	1.260	39.193	26.702	1.00	56.63
2249	CA	ALA	A	438	1.128	40.613	27.128	1.00	57.41
2250	CB	ALA	A	438	2.503	41.281	27.342	1.00	57.27
2251	C	ALA	A	438	0.288	41.444	26.158	1.00	57.72
2252	O	ALA	A	438	-0.900	41.687	26.399	1.00	58.26
2253	O	HOH	W	1	6.551	50.484	-5.966	1.00	24.29
2254	O	HOH	W	2	4.448	52.833	-0.469	1.00	28.54
2255	O	HOH	W	3	3.205	28.230	-7.758	1.00	35.16
2256	O	HOH	W	4	-1.907	49.776	13.097	1.00	32.89
2257	O	HOH	W	5	9.099	51.050	-4.379	1.00	25.18
2258	O	HOH	W	6	14.197	50.762	-4.171	1.00	34.36
2259	O	HOH	W	7	8.126	39.464	-13.943	1.00	31.11
2260	O	HOH	W	8	13.238	47.786	6.939	1.00	31.46
2261	O	HOH	W	9	-2.021	53.460	6.588	1.00	31.08
2262	O	HOH	W	10	19.678	54.775	3.288	1.00	27.34
2263	O	HOH	W	11	13.371	44.195	-14.581	1.00	30.55
2264	O	HOH	W	12	-0.205	53.071	-2.186	1.00	28.63
2265	O	HOH	W	13	6.596	46.693	14.111	1.00	30.03
2266	O	HOH	W	14	11.351	54.006	2.018	1.00	28.17
2267	O	HOH	W	15	-6.301	48.148	7.352	1.00	35.78
2268	O	HOH	W	16	4.982	30.429	1.594	1.00	34.73
2269	O	HOH	W	17	14.586	39.349	-10.389	1.00	47.32
2270	O	HOH	W	18	18.648	34.561	8.461	1.00	43.67
2271	O	HOH	W	19	2.122	44.883	23.466	1.00	41.14
2272	O	HOH	W	20	-5.295	29.850	0.397	1.00	43.39
2273	O	HOH	W	21	-1.996	52.674	1.750	1.00	33.46
2274	O	HOH	W	22	-1.997	43.782	-8.901	1.00	44.09
2275	O	HOH	W	23	-8.054	34.995	-10.297	1.00	42.88
2276	O	HOH	W	24	6.960	53.658	10.791	1.00	42.33
2277	O	HOH	W	25	16.679	40.525	-0.105	1.00	29.73
2278	O	HOH	W	27	16.714	50.945	-3.257	1.00	38.02
2279	O	HOH	W	28	-10.466	34.542	9.427	1.00	50.83
2280	O	HOH	W	29	-2.619	53.319	-0.761	1.00	36.00
2281	O	HOH	W	30	5.444	54.271	1.680	1.00	40.97
2282	O	HOH	W	32	-7.551	38.182	-7.762	1.00	40.09
2283	O	HOH	W	35	21.523	33.869	33.963	1.00	34.39
2284	O	HOH	W	36	9.212	38.879	25.074	1.00	31.36
2285	O	HOH	W	37	3.975	45.526	-10.808	1.00	33.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2286	O	HOH	W	38	-6.631	32.932	-12.046	1.00	39.01
2287	O	HOH	W	39	5.918	30.156	-9.853	1.00	36.58
2288	O	HOH	W	40	-7.741	31.987	3.411	1.00	41.41
2289	O	HOH	W	42	8.602	36.707	20.472	1.00	44.85
2290	O	HOH	W	44	-8.458	34.723	-5.144	1.00	34.78
2291	O	HOH	W	45	16.223	44.708	14.570	1.00	48.35
2292	O	HOH	W	46	0.731	52.928	11.091	1.00	42.12
2293	O	HOH	W	47	0.778	48.807	-9.656	1.00	36.73
2294	O	HOH	W	48	19.877	51.504	2.489	1.00	42.13
2295	O	HOH	W	49	21.842	31.164	9.454	1.00	48.47
2296	O	HOH	W	50	-4.509	43.246	-9.313	1.00	56.24
2297	O	HOH	W	51	13.428	37.128	-6.688	1.00	36.34
2298	O	HOH	W	53	15.830	42.334	-1.834	1.00	46.10
2299	O	HOH	W	54	14.847	44.300	-0.168	1.00	34.25
2300	O	HOH	W	55	19.238	38.535	31.006	1.00	56.19
2301	O	HOH	W	56	24.985	31.333	35.363	1.00	65.52
2302	O	HOH	W	57	18.133	37.286	11.031	1.00	43.94
2303	O	HOH	W	58	-1.209	53.947	3.983	1.00	36.04
2304	O	HOH	W	60	-13.107	37.556	1.095	1.00	45.75
2305	O	HOH	W	62	16.418	40.953	14.848	1.00	36.25
2306	O	HOH	W	63	18.750	53.175	-2.582	1.00	53.02
2307	O	HOH	W	66	16.301	39.578	21.207	1.00	31.85
2308	O	HOH	W	67	-4.492	27.476	-10.434	1.00	48.89
2309	O	HOH	W	70	20.378	44.535	7.203	1.00	41.38
2310	O	HOH	W	71	13.517	54.293	3.547	1.00	47.02
2311	O	HOH	W	74	14.550	40.091	19.291	1.00	32.84
2312	O	HOH	W	75	-5.846	37.151	-18.471	1.00	57.88
2313	O	HOH	W	76	18.035	32.045	7.695	1.00	44.75
2314	O	HOH	W	77	4.654	31.629	-11.669	1.00	39.27
2315	O	HOH	W	79	7.818	54.682	-6.375	1.00	45.64
2316	O	HOH	W	81	2.439	34.830	14.781	1.00	40.81
2317	O	HOH	W	83	-7.940	48.656	-6.889	1.00	35.62
2318	O	HOH	W	84	15.568	39.134	31.277	1.00	50.02
2319	O	HOH	W	86	0.718	55.140	-5.917	1.00	51.68
2320	O	HOH	W	89	19.833	35.202	19.186	1.00	43.90
2321	O	HOH	W	90	-10.677	49.793	-6.526	1.00	46.05
2322	O	HOH	W	92	-12.447	52.142	-0.876	1.00	45.63
2323	O	HOH	W	93	-9.986	47.633	7.485	1.00	54.03
2324	O	HOH	W	95	4.851	51.601	19.098	1.00	44.53
2325	O	HOH	W	97	25.604	38.495	26.723	1.00	74.60
2326	O	HOH	W	98	-4.728	51.390	-7.536	1.00	45.87
2327	O	HOH	W	100	-5.131	52.296	7.046	1.00	41.30
2328	O	HOH	W	102	20.713	28.703	-2.971	1.00	55.92
2329	O	HOH	W	104	23.887	22.566	30.519	1.00	54.68
2330	O	HOH	W	105	4.621	57.347	-3.174	1.00	53.92
2331	O	HOH	W	106	20.618	38.369	2.785	1.00	38.20
2332	O	HOH	W	107	27.712	36.430	11.313	1.00	52.80
2333	O	HOH	W	108	2.119	30.113	0.985	1.00	55.12
2334	O	HOH	W	110	12.783	33.020	19.122	1.00	48.79
2335	O	HOH	W	111	-14.571	32.830	3.349	1.00	48.95
2336	O	HOH	W	112	-15.685	43.602	-1.833	1.00	51.49

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2337	O	HOH	W	113	20.773	52.636	-0.133	1.00	49.69
2338	O	HOH	W	117	2.215	53.860	-1.619	1.00	40.44
2339	O	HOH	W	122	17.554	12.040	24.786	1.00	59.36
2340	O	HOH	W	124	6.452	51.506	5.728	1.00	46.78

FIGURE 4

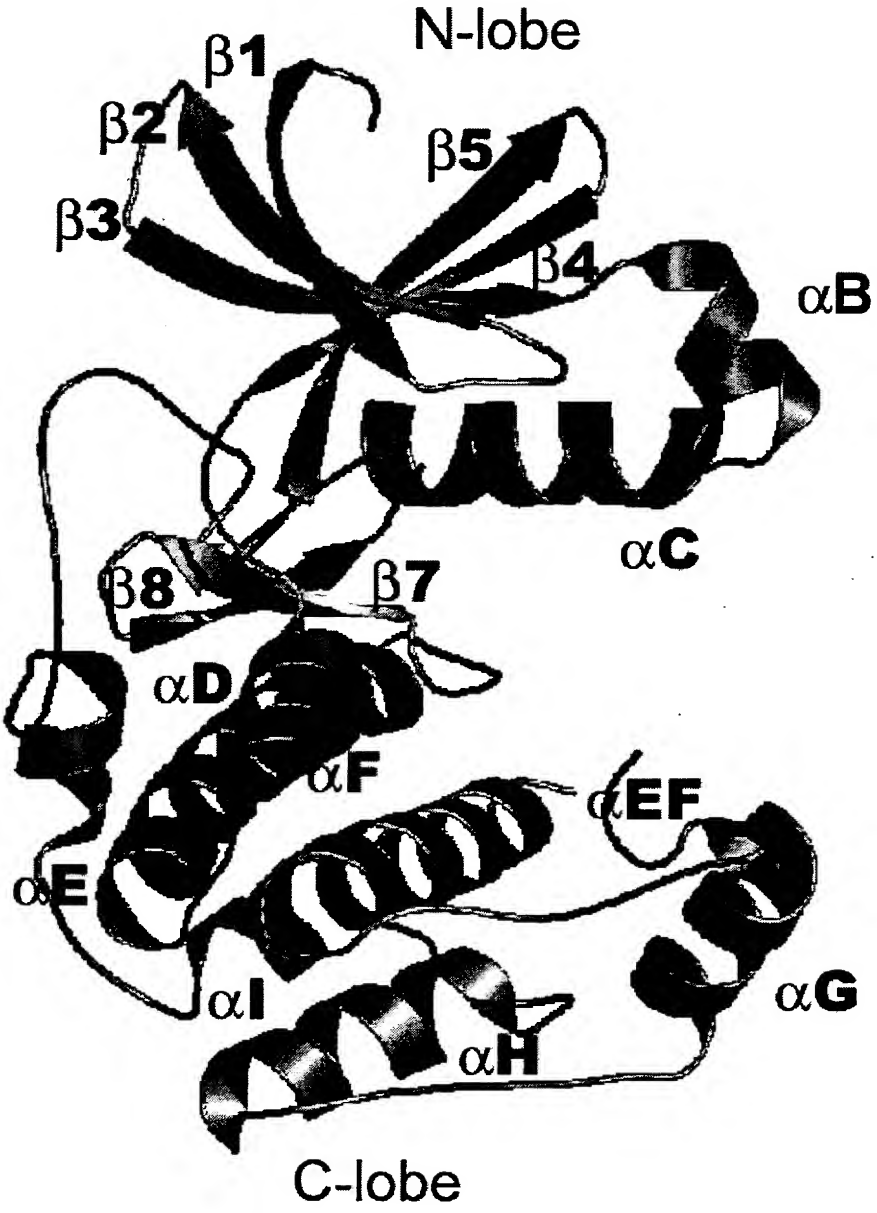
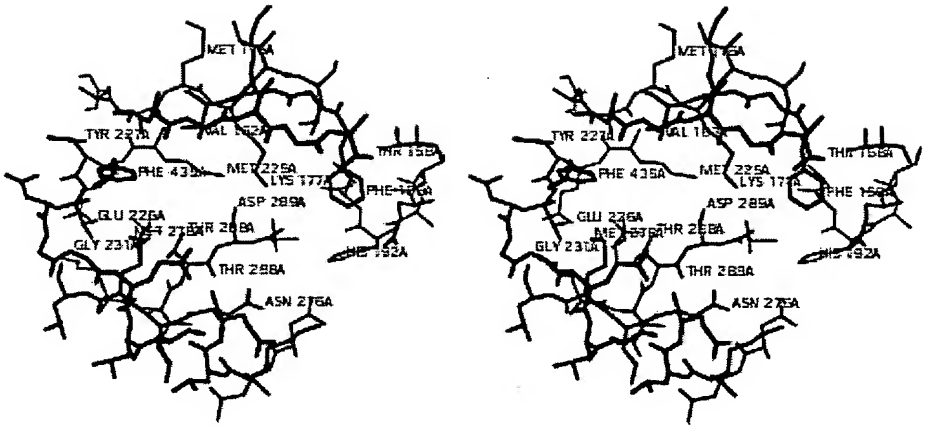


FIGURE 5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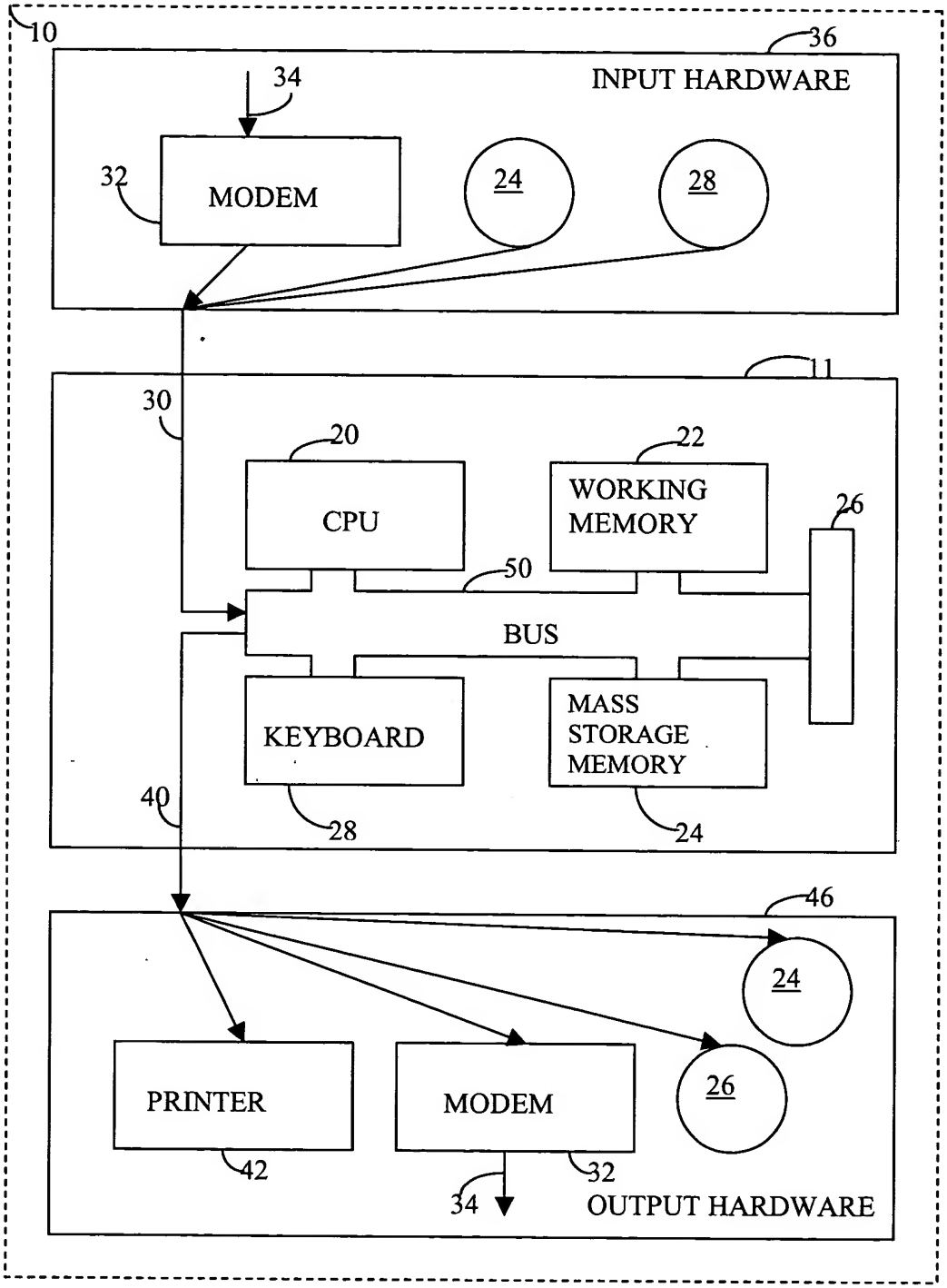
MET 225A
ASP 289A
GLU 226A
THR 288A
GLY 231A
THR 288A
ASN 279A
TYR 227A
PHE 435A
MET 225A
ASP 289A
GLU 226A
GLY 231A
THR 288A
ASN 279A

FIGURE 6


10
36
INPUT HARDWARE
34
32
MODEM
24
28
11
30
20
CPU
22
WORKING MEMORY
26
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BUS
KEYBOARD
MASS STORAGE MEMORY
40
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PRINTER
MODEM
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OUTPUT HARDWARE